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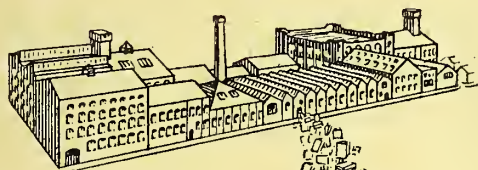
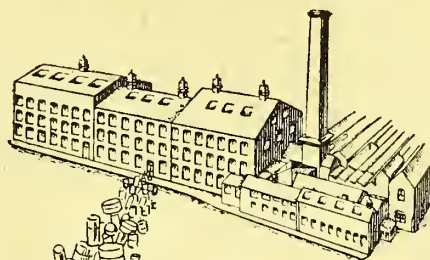
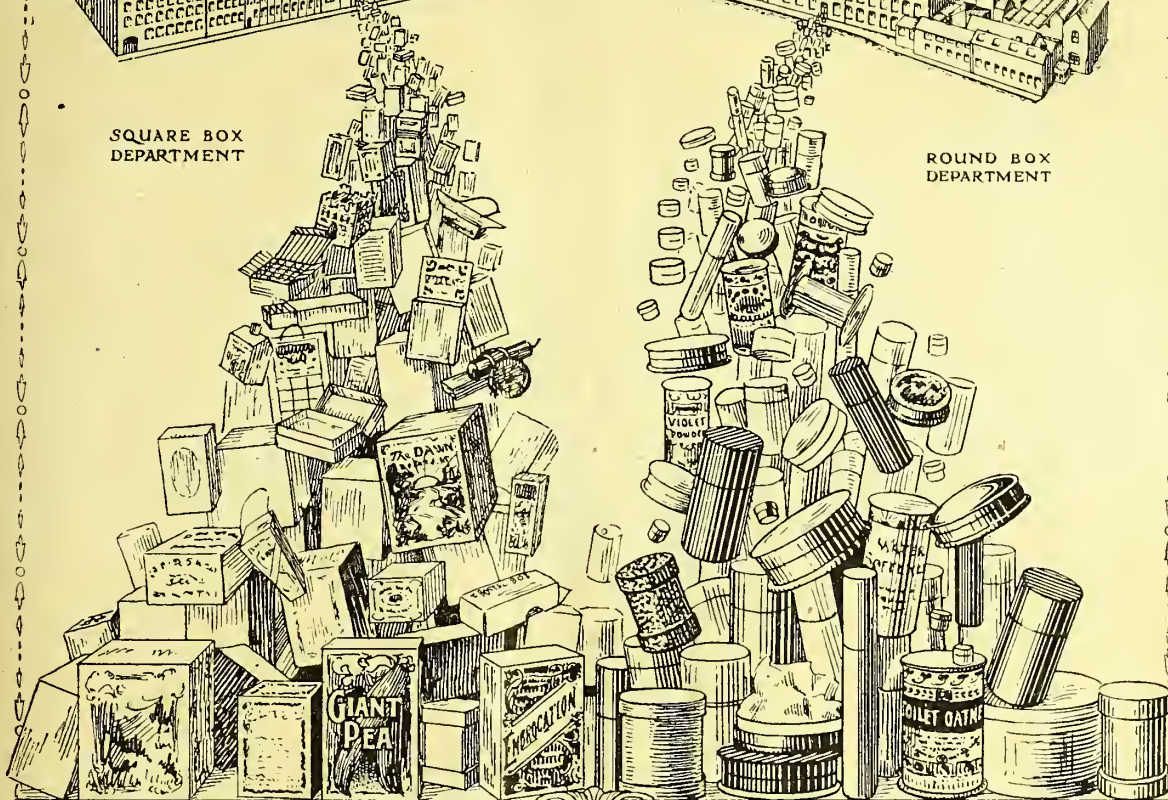
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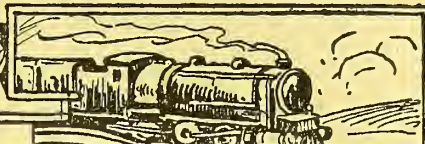
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SACCHARIN (Monsanto) 550

Tins of 10 lb. each (unopened) 190/- per lb.

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Cash with order.

Carriage paid

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For Headache, Toothache, Neuralgia, and Rheumatism.

Sold at 1/3 per box of 12 powders, or loose at 2d. each; two for 3d.

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50,000 " " " " 10/9 " 16/- " 16/6 "

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Exceptional Offer.

 $\frac{1}{4}$ grain 330.

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GUARANTEED FULL STRENGTH.

 $\frac{1}{2}$ grain 330 in 1.

1 lb. lots	80/-	per lb.
2 "	79/-	"
5 "	78/-	"
10 "	77/-	"
10,000 ...	11/6	per 1000
100,000 ...	11/-	"

To-day, owing to our large output and favourable buying, we are still enabled to lead both as to quality and price. The Market for the last few weeks has developed well for the buyer.

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UNCONTROLLED

SACCHARIN TABLETS

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$\frac{1}{2}$ gr. 330 in each tablet	5/-	per 1000.
$\frac{1}{4}$ gr. " " " "	"	"	7/-	" "
$\frac{1}{8}$ gr. " " " "	"	"	10/-	" "

Cash with order.

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SACCHARIN. SACCHARIN.

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160/- per pound. Carriage paid.

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Aspirin Tablets

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5 grs. 13/- per 1000.

In bottles of 25, 6/-, of 50, 10/-, of 100, 19/- per doz.

Saccharin Tablets $\frac{1}{2}$ grain 6/- per 1000." " $\frac{1}{4}$ " 8/- " 1000." " $\frac{1}{2}$ " 11/- " 1000.

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**SACCHARIN
TABLETS****Guaranteed by the Maker.**

(Average over 7,000 to the pound).

 $(\frac{1}{2}$ gr. = 330 in 1.)

1 lb. Lots	...	...	70/-	per lb.
2 lb. "	...	...	69/-	"
5 lb. "	...	...	68/-	"
10 lb. "	...	...	67/-	"
25 lb. "	...	...	65/-	"

10,000 lots at 10/- per thousand.

100,000 lots at 9/9 "

1,000,000 lots at 9/6 "

100's packed in boxes at 13/6 per dozen.

 $(\frac{1}{2}$ gr. = 330 in 1.)

1 lb. Lots	...	...	55/-	per lb.
2 lb. "	...	...	54/-	"
5 lb. "	...	...	53/-	"
10 lb. "	...	...	52/-	"
25 lb. "	...	...	50/-	"

10,000 lots at 8/- per thousand.

100,000 lots at 7/9 "

1,000,000 lots at 7/6 per dozen

100's packed in boxes at 10/- per dozen.

 $(\frac{1}{2}$ gr. = 330 in 1.)

1 lb. Lots	...	...	40/-	per lb.
2 lb. "	...	...	39/-	"
5 lb. "	...	...	38/-	"
10 lb. "	...	...	37/-	"
25 lb. "	...	...	35/-	"

10,000 lots at 6/- per thousand.

100,000 lots at 5/9 "

1,000,000 lots at 5/6 "

100's packed in boxes at 7/6 per dozen.

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Immediate Delivery.

**Transparent Hygienic
Teats Free.**

During the next week we shall send
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BATLEY.

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TO COMMUNICATE WITH

MORRIS & JONES, Ltd., 82/86 Whitechapel, Liverpool.

TELEGRAPHIC ADDRESS: "SPOTLESS LIVERPOOL."

TELEPHONE NO.: ROYAL 4820.

SACCHARIN TABLETS

Made from Monsanto Saccharin, each guaranteed to contain
 $\frac{1}{2}$ -gr. 350 in 1, 7,000 to the lb.

1 lb., 78/- 3 lb. @ 77 6 7 lb. @ 77 -
 14 lb. @ 76 6 28 lb. @ 76 -

In envelopes each containing 100 @ 14 9 per doz.

$\frac{1}{2}$ -gr. 330 in 1.

10,000 @ 6 -, 100,000 @ 5 - per 1,000.

Cash with Order. Carriage Paid.

R. GIBBINS & CO. Tablet
Manufacturers,

1 Birkbeck Road, Kingsland, London, E. 8.

Saccharin Tablets

$\frac{1}{2}$ -grain 5 - per 1,000
 $\frac{1}{2}$ -grain 9 - "

OSION POWDER, 16 times sweeter than sugar, guaranteed.
 10 6 per lb., or in packets at £2 10s. per gross.

The B. & A. TRADING CO.

Alkima Works, 65 Regent's Park Road, LONDON, N.W. 3.

CHANGEABLE LETTER SIGNS

Most effective, artistic and NOVEL. Letters do not fall
 about once placed in position.

300 Letters and Figures to each Sign.

Size 18 by 14 inches, in Wooden Frame, price 10 6.

Two for 18 -; Size 11 by 15, price 7 -; Two for 12 -.

Sent carriage paid on receipt of Postal Order.

Dominion Trading Co., 50 Adelaide Rd, London, N.W.3

SACCHARIN 550

COUMARIN

VANILLIN

HELIOTROPIN

GRANT, HUGHES & CO.

21 Mincing Lane - LONDON, E.C. 3.

Telephone—Avenue 4567.

Telegr. Address—"Nitroform London."

NOTICE

A few months ago we asked our chemist friends to co-operate with us in the collection of used Euthymol tubes.

It was explained at the time that it was a war measure, a temporary expedient only, that it must ultimately be withdrawn.

Happily this time arrived very much sooner than was anticipated, and we now ask you to destroy the card making the offer to your customers.

The tubes already collected should be sent to us at once, and allowance will be made in accordance with our offer, eighteen tubes of

Euthymol
TOOTH PASTE

for each gross, smaller lots in proportion.

PARKE, DAVIS & CO.
50-54, Beak Street, LONDON, W.1.
Laboratories :: Hounslow, Middlesex.



DIADEM

Complexion Wax

Completely supersedes the customary greasy Toilet Creams. Is most pleasant in use and commands ready sales. Attractively produced in elegant large jars.

DIADEM

Vanishing Cream

A cream of rare purity and charm put up in novel white globes which have an irresistible appeal and packed in dainty boxes in Robartes' attractive style. Handsome profits for you in selling.

DECOLTENE

The liquid hair remover

The intelligent depilatory. Simple safe effective and harmless. Can be used while performing the toilet. Daintily packed.

DIADEM

Crème Rouge

Gives an undetectable and natural colour to the cheeks. Far more convenient in use than the existing dry rouges. Easily removable whenever desired. In dainty jars.

DIADEM

Face Powder

Possessed of the elusive fragrance of Diadem Cream, adheres readily to the skin. Made in Blanche, Naturelle, Rachel Rose and Sunburn tints. Packed in large artistic boxes, in the distinctive Robartes' style and colouring. A sure seller.

Dinkie

The Dainty Deodorant

An attractive line that enjoys good sales. A greaseless cream that takes all odour out of perspiration. Packed in attractive jars.

TRADE TERMS.

DIADEM FACE POWDER	P.A.T.A. 2/6	Trade per doz. 20/-
.. COMPLEXION WAX .. ..	.. 2/6	.. .. 20/-
.. CRÈME ROUGE .. ..	.. 2/6	.. .. 20/-
.. VANISHING CREAM .. ..	.. 3/9	.. .. 30/-
DECOLTENE DEPILATORY .. ..	.. 3/9	.. .. 30/-
DINKIE DEODORANT .. ..	.. 2/6	.. .. 20/-

Artistic Showcards and Counter Matter free on request.

Robartes, Ltd. Preparations are obtainable from all leading wholesale houses.

Largely advertised in all the leading dailies, weeklies and monthlies.

Further particulars and descriptive booklet forwarded on request.

ROBARTES LTD.,

128, Jermyn Street,
LONDON, S.W.1.

COLONIAL AGENTS.
CEYLON—Corbyn, Stacey & Co. Ltd., 673 Commercial Road London, E.
INDIA—Whiteaway, Laidlaw & Co., Bombay, Calcutta.
AUSTRALIA—Druggists' Sundries, Ltd., Sydney.
FRANCE AND BELGIUM—The Anglo-French Drug Co., 8 Rue Clauzel, Paris.

TELEPHONE:
CITY 7
PRIVATE
BRANCH
EXCHANGE

TELEGRAMS:
ELEVEN
CENT
LONDON



S. MAW & SONS LTD.
7/12 ALDERSGATE STREET
LONDON
ENGLAND



CABLES:
ELEVEN
LONDON

CODE:
A : B : C
4TH & 5TH
EDITION

Maw's Page.

NUMBER 379

JAN. 18 1919.

FOUR STANDARD TOOTH POWDERS

THE FINE ART OF EXCELLENCE

IN 4 VARIETIES.

CARBOLIC (PINK).
WHITE CARBOLIC.
SMOKER'S TOOTH POWDER.
OXYGEN TOOTH POWDER.



No. 108.



No. 109.

5/3 per dozen.

Of the Tooth Powders little need be said beyond the fact that they are the same standard articles which are so well-known and greatly appreciated. In an effort to render the containers as perfect as the contents, we have arrived at a series of most artistic tins.

We cannot, short of colour illustrations, convey an adequate idea of the excellence of design and execution; the lids are recessed and domed, whilst the printing is quite a first-class example of tinplate decoration. Each style is different in design and colour, and the bands employed to seal the tins carry out and complete the general effect.



No. 110.



No. 111.

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

CLOSE AT 1 p.m. SATURDAYS.

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

The prices announced below will come in force as from the date of this issue :—

Advert. Price		Minimum Retail Price.	Minimum Wholesale Price.
3/-	{ Browning's "Semprolin" Emul-	{ 3/-	27/-
5/-	sion with Lecithin.	{ 5/-	47/-
4/9	„ with Guaiacol	4/9	45/-

Cow & Gate Dried Milk Foods :—

3/-	„ „ Full Cream, Pink Label	3/-	23/- doz.
8/6	„ „ „ „ „ „	8/6	6/9 each
2/8	„ „ Half „ Blue „	2/8	25/- doz.
7/6	„ „ „ „ „ „	7/6	6/- each

(m.w.p. less 2½ per cent. if paid by the 15th of month following date of invoice.)

8d.	{ Hassall's Brush Powder	... 8d.	55/- gross
	„ „ „ „ „ „		

9d.	Parke, Davis & Co.'s Improved	9d.	6/-
	Bronchial Lozenges		

Perkin's "Matermadre"

6/-	Clinical Thermometers	...	6/-	3/- each
	L.F. ord.			
7/-	Clinical Thermometers	...	7/-	3/6 „
	1 min.			
8/6	Clinical Thermometers	...	8/6	4/3 „
	½ min.			

1/-	Thompson's (Dr.) Dandelion Coffee	1/-	9/-
1/9	„ „ „ „ „ „	1/9	15/-
3/6	„ „ „ „ „ „	3/6	30/-

BIDWELLS

LIMITED.

Will friends kindly note that our old Silverdrawn brand of Tooth Brushes are now stamped "GLORIA" SILVERDRAWN and that this title is registered.

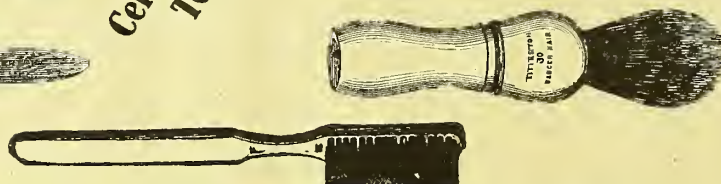
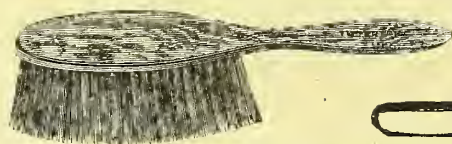
Head Office & Factory :

AXMINSTER, DEVON.

London Office & Showrooms :

Bush Lane House, Cannon St., E.C. 4.

Titterton's Celebrated TOILET Brushware



TITTERTON & HOWARD, 8 & 10 Great Titchfield St., London, W.1.
FACTORY: ALBION WORKS, DALSTON LANE, E.8.

WHOLESALE.

**CONTRACTOR TO
THE WAR OFFICE.**

EXPORT.



ACTUAL MANUFACTURER OF

CAMEL HAIR BRUSHES

FOR ALL ART AND MEDICAL PURPOSES.

Throat, Nose and Ear Brushes a Speciality.

PERCY P. BAKER,

Works : WALTHAMSTOW, ESSEX; and at ISLINGTON, N.

**16 CARTHUSIAN STREET,
ALDERSGATE, LONDON, E.C.**

TELEPHONE : CITY 362.

TETLOW'S "SWANDOWN" FACE POWDER



Please Note : "SWANDOWN" is now in stock, and the Retail Trade can be supplied by their Local Wholesale Houses, who hold Stock.

Price **9½d.** per box P.A.T.A.
74/- per gross net.
No Bonus.

The Trade will remember that this price gives an increased profit to the retailer.

HENRY C. QUELCH & CO.
Ludgate Square, Ludgate Hill, LONDON, E.C. 4.

Style P. 160/1
without mirror
per 5/- dozen.

Style P. 160/2
with mirror in lid
per 6/- dozen.

POUDRE

IMPERIA

A solid, impalpable
Face Powder,
exquisitely per-
fumed in pocket
case with puff,
made in Rouge,
Brunette & all shades



COMPACTE

Packed in beau-
tifully labelled
silent salesman
— outers. —
Private Brands
made for the
wholesale trade

The EMPIRE PERFUMERY CO. (Cuxson, Gerrard & Co. Ltd., Proprietors) **OLDBURY.**
COLONIAL AND EXPORT INQUIRIES SPECIALLY INVITED

**Bay Rum
Cantharidine
& Rosemary**
FOR THE HAIR.

**SMART PACK.
ESPECIALLY EFFECTIVE FORMULA.
ATTRACTIVE ART SHOWCARDS.**

8-oz. Bottles, **8/6** dozen. **99/-** gross.
Less 5 per cent., cash 14 days.

**SPECIAL
OFFER**
DURING JANUARY

WITH EVERY ORDER
for 1 gross we will enclose
 $\frac{1}{2}$ gross of our Famous
SKIN TABLETS, retailing
9/-, FREE.

CARMOL MANUFACTURING CO.
28 BATH ROW, BIRMINGHAM.

Ayrton's for Aspirin Tablets

25's	50's	100's
6/2	11/4	20/6

Less $2\frac{1}{2}\%$ Monthly Account.

**Overseas inquiries
are invited.**

PAGE 15
AYRTON'S

There will be the usual mad rush for Water Glass later on.

We suggest that you get in your usual season's supply now.

We are sending out the highest concentration Water Glass in all-tin containers, at the following prices :

	1 lb.	2 lbs.	4 lbs.	7 lbs.
Per dozen	5/10	8/9	15/6	24/6

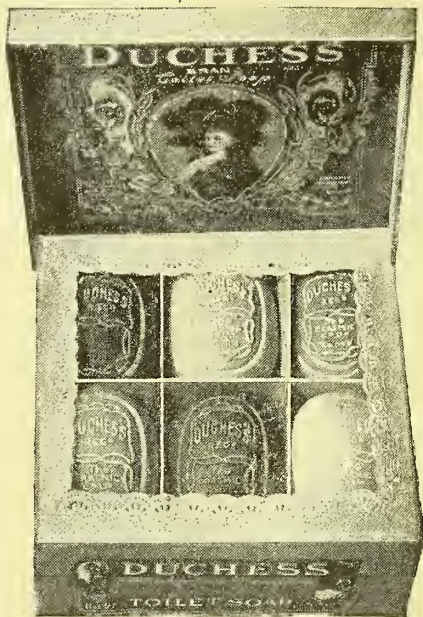
Less $2\frac{1}{2}\%$ Monthly Account

(£5 Orders—less 5 % Discount in addition to the $2\frac{1}{2}\%$ Counting-House Discount)

SHOWCARDS ARE FREE AS USUAL
NAME & ADDRESS ON 6 DOZEN AND UPWARDS

AYRTON, SAUNDERS & Co. Ltd.
LIVERPOOL

Sale reserved exclusively to Chemists.



"DUCHESS" TOILET SOAP

Regd.

4^D. TABLETS.

Price Protected.

No cutting.

Send for Price List to

"ERASMIC" PERFUMERS, WARRINGTON.

WE ADVISE YOU TO STOCK OUR "MOOVIT" CORN PENCILS

which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/-

which gives you a very handsome profit, and is on the P.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON,
20 HIGHGATE ROAD, LONDON, N.W. 5

BRITISH ODOL

Send for Price
List and Trading
Terms.



Revised
Retail Prices.

Grand Double
Flask

5/3

Full-size Bottle

3/-

Half-size Bottle

1/9

ODOL

Chemical Works,
BERKHAMSTED.

C.V. & S. 12.

**A DAINY BRITISH PERFUME
OF GREAT FRAGRANCE.**

POTTER & MOORE'S MITCHAM LAVENDER WATER

Established - 1749.

Prices: 17/- 30/- 54/- 78/- 136/- doz. 21/- each

RETAIL P.A.T.A. 2/- 3/6 6/6 9/- 16/- each 30/- each

Pocket Flasks 25/- doz.

RETAIL P.A.T.A. 3/- each.

Sole Proprietors:—

W. J. BUSH & CO., Ltd.

Ash Grove, Hackney, London, N.E.

DISTILLERY ————— MITCHAM, SURREY.

"LESCOL" FLORAL PERFUMES

NOTICE

ON account of shortage of spirit and raw materials, Perfumes will be very scarce this year; but as we are holding a very fair stock at remunerative prices to our customers, we strongly advise them to send us their requirements at an early date, in order to avoid disappointment. On receipt of postcard, if possible, one of our representatives will call with samples when next in your vicinity, or we will forward you a complete price list.

We also hold good stocks of **ESSENTIAL OILS** at lowest market prices, & **FLORAL OTTOS, FRUIT ESSENCES, CHEMICALS, &c.**

LESCOL PERFUMERY CO. Lomond Grove, Camberwell Green,
LONDON, S.E. 5.

Telephone: 610 HOP. (Proprietors: The London Essence Co.) Telegrams: "VANILLIN, CAMBER, LONDON."

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
— Manufacturing Chemists —

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	9d.		6/6
" " " " " bottles in } " " " " " cartons }	2/-		16/-

*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box 8d.	2/-	18/-



FOR

Powder Puffs

OF EVERY KIND.

SOLPORT BROTHERS LIMITED,

Wholesale and Export Manufacturers of
Druggists' Sundries and Toilet Accessories,

184 to 190 GOSWELL ROAD
LONDON, E.C.1.

New Year 1919.

EUCRYL LIMITED

Wish to convey hearty greetings and best wishes to all their friends at Home and Abroad, and gladly take this opportunity of expressing their sincere thanks and appreciation for the sympathetic and considerate support extended to them by the Trade during the abnormal difficulties they have had to encounter during the past twelve months.

They fully appreciate the inconvenience and disappointment caused by delay in deliveries which at *all* times they did their utmost to mitigate.

They are now extending their Works and Plant, and look forward with confidence to renew prompt service during the coming year.

EUCRYL LIMITED,

Works and Laboratories :

61-63 Lant Street, Southwark, London, S.E. 1.



WILOWISP CRÈME d'ARAK

An ideal
VANISHING CREAM
*for the Face and Hands. Neither
greasy nor sticky.*

PROMPT SUPPLIES.
ATTRACTIVELY PACKED.
LIBERAL TERMS.

RETAIL (P.A.T.A.) 1/- PER POT.

Wholesale Price, 8/- per dozen. Window Show terms on application.

Also "Arak Foam" Shampoo, "Henna" Shampoo, "Dry" Shampoo.

ALL WELL-KNOWN GOOD SELLING LINES.

JOHN TIMPSON & CO., Ltd., 104 & 106
GOLDEN LANE, London, E.C. 1.

'GRAMS' "Porous, Barb, London."

'PHONES: City, 6910 6911.

KO-TAL-KO

**IS ASKED FOR EVERY DAY
BY YOUR CUSTOMERS**

Stock "KO-TAL-KO" because

You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deserved profit, and you are working on sound business all the time.

NOTE TRADE TERMS (P.A.T.A.)—

5/- Size 48/- per dozen
12/6 112/6 ..

J. HART BRITAIN, Ltd.

(Dept. C.D. 1.)

2 PERCY ST., LONDON, W.1

KO-TAL-KO

**OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of**

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an enormous demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	} per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.1.

Lead from Strength!

9/- SHAVING POWDER Doz

54/- COAL TAR Gross
Superfatted and detergent

9/- SHAVING STICK Doz

40/- TOILETS Gross ASSORTED

72/- BATH ROUNDS Gross

6/- Cologne, Verbena, Lavender, Rose, Glycerine & Cucumber, Violet.

MIDGLEY'S
Pharmacist
Soap Makers
MANCHESTER
Estd. 1833

No Apology

is necessary for quoting the above well-known Bridge maxim, because there is much in common between Scientific Bridge and Scientific Business. In both there is a flavour—a zest—a *joie de vivre*—for the keen player which is denied the unversed or apathetic participant.

The game is never the same; the campaign not always to the lucky; the result seldom foregone, and in both philosophy has its place.

Only in the one have you—to an extent—the choice of cards, and believing we hold a strong hand we invite our fellow-players to participate in these.

PAPIER POUDRÉ

AND "POPPŒA" PREPARATIONS.

TRADE

MARKS

BRITISH MADE
GOODS



"LEHCARESOR."

Papier Poudre

Our Sunburn Tint

For Landworkers

Booklets - - - 8d. & 1/4
5/- & 10/- per doz. net.

Beware of Spurious Imitations.

REGISTERED



PAPIER POUDRÉ, LTD.,
26 Baker St., Portman Sq., London, W.
and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

NEW PAPIER POUDRÉ PRICES.

IN WHITE, ROSE, or RACHEL TINTS, 4d., 6d., 8d. and 1/4 size Booklets.
2/8, 3/9, 5/- and 10/- per doz. net respectively.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

NEAT 1/4 MIRROR CASES, containing pads of PAPIER POUDRÉ, 10/- per doz. net.

REFILLS to these MIRROR CASES 2/8 " "

8d. SHAVING PADS (unscented, white only) 5/- " "

THE ALL-BRITISH "POPPŒA" PREPARATIONS.



NEW PRICES.

ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

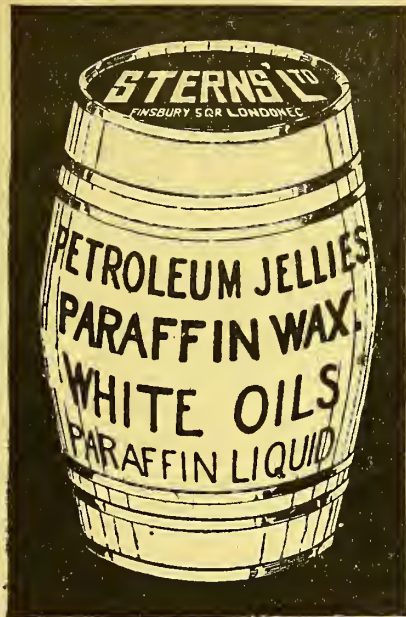
IN PADS, 8d. and 1/4 each. IN MIRROR CASES, 1/4 each, 10/- per doz. net.
5/- and 10/- per doz. net respectively. Refills, 3/9 per doz. net.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars, 1/2, 2/6 & 3/6 each; 9/6, 24/ & 28/- doz. net respectively

"POPPŒA" CIRCASSIAN CREAM " 1/2, 2/6 & 3/6 " 9/6, 24/- & 28/- " "

"POPPŒA" CRÈME POUDRÉ, in Bottles, 1/2 & 3/6 each; 9/6 & 28/- doz. net respectively.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, PORTMAN SQUARE, LONDON, W.1.



STERNS LIMITED

A.D.5., Royal London House, Finsbury Sq., E.C. 2.

Telephone:
3797 LONDON WALL
(Four Lines.)

Telegrams:
"CENTUMVIR, PHONE, LONDON."
(Two Words only.)

Established 1839.

Chemists' Overalls Gardiner & Co.

We supply protective overalls and aprons in any colour or style required. They are made by experienced hands for all branches of the chemical trade.

Keenest Quotations sent on request, or a special representative will be pleased to call.

Head Office: Gardiner & Co. (The Scotch House) Ltd.
1 Commercial Road, E. 1.

Phone: 6650 Ave.

Codes: A B C, 4th & 5th.
Telephone: Hop 334.

Telegrams:
"ANISEED, FRIARS, LONDON."

F. W. POWELL, M.P.S.,
85 Blackfriars Road, London, S.E. 1.

Chemicals (Pharmaceutical
and Technical)
Drugs, Oils, Waxes
and General Produce.

Correspondence invited where specially large quantities are required or offered.

Special Quotations to Manufacturers and Exporters.



A Triumph of Science

THE modern gas fire is a striking evidence of what can be accomplished by patient research and the spirit that ever strives after better things.

The old-fashioned gas fire was a brave attempt at achieving an important ideal—but no more; the modern fire has beyond cavil "got there". Giving out 80 per cent of its heat in the most hygienic form—radiation; ever-ready, clean and labour-saving; highly economical, in that it gives the maximum power for the fuel consumed and can be turned on and out at need, thus eliminating waste—the twentieth century gas fire is one of the chief triumphs of domestic science.

**THE BRITISH COMMERCIAL
GAS ASSOCIATION**

47 Victoria Street, Westminster, S.W. 1
K51d

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.

1/-



Make your
old Hat a
new one.

*In bottles, 1/-
each, in sepa-
rate neat con-
tainers, with suit-
able brush.*

These Dyes
are a distinct
invention,
dyeing the
straw without
an objection-
able varnished
appearance,
and producing
the effect of
new goods.

NO GLOSS. NO POLISH.

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS,
ALSO LEAFLET OF TESTIMONIALS.

**"Luton" HAT
DYE**

**WHITAKER & CO., COLOUR WORKS,
KENDAL, ENG.**

London Depot: 60-62 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.

Special Non-Inflammable Series for Export. Est. 1871

Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

ANOTHER HOME ARTICLE OF GREAT UTILITY.

"LUTON"
*Household
Dyes*

FOR HOME DYEING.

All these colours will dye either Wool, Silk or Cotton, or mixture of these. No separate dye required for each material. Easy and clean to use. No acids or preparation required. Make home dyeing a matter of interest and pleasure.

A standard range of 12 Colours; other shades supplied.
IN PACKETS, 2d., 3d. and 6d. each, and in Bulk.

Pattern Book. Write for Terms and Patterns.

**WHITAKER & CO., COLOUR WORKS,
KENDAL, ENG.**

London Depot: 60-62 Clerkenwell Road, E.C.

Telegraphic Address: "Dullette Kendal." Telephone No. 214.

ESTABLISHED 1878,

Proprietors of the "Luton" Straw Hat Dyes.

STOVAIN

THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches,
nausea, vertigo or syncope. :: :: *Literature on demand.*

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly
in practically unlimited quantities from the manufacturers :

LES ETABLISSEMENTS POULENC FRÈRES
92, RUE VIEILLE DU TEMPLE, PARIS.

Quin-Quenna
BETTER THAN A SHAMPOO

The "Mail Order" end of the business is not wanted by the makers of **Quin-Quenna**. It is far too troublesome to handle, and to do it well calls for an extensive organisation, &c. We make these remarks because quite a number of ladies write us from all parts enclosing remittances and say "Our chemist can't supply us," or "Can you tell us where we can get our next supplies, &c., at—?" Seeing that in all our Press. announcements (and they are many), we tell the public to "Go to the chemist" for supplies, we feel sure that chemists will support us by showing the cards, cartons and envelopes, and get all this trade themselves. There is no need to do anything else.

Quin-Quenna is now better boxed, better labelled, and altogether more easy of sale. A nice stick-on-the-window bill is supplied, also the pretty little showcard, whilst we will send **carriage paid** to any address a **6-Doz. Carton with 1 Doz. Bonus** per return on receipt of a postcard.

LET US SEND ONE.

4/- PER
DOZ.

Bear in mind that we give with
Bonus no less than this splendid
P.A.T.A. Profit.

43% 43% 43%

P.A.T.A. 6^D.

EACH

CHRISTY'S, Old Swan Lane, E.C. 4.

**ONLY SHOW IT &
SALES ARE SURE**

USE COLLOIDAL DRUGS

*All clinical reports confirm
the superiority of Colloidal
over molecular solutions.*



*are Colloidal Drugs, adopted
by the medical profession
and hospitals.*

SPECIAL COLLOIDS.

COLLOSOL ARGENTUM.

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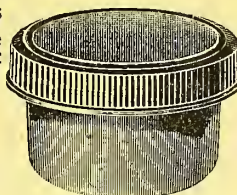
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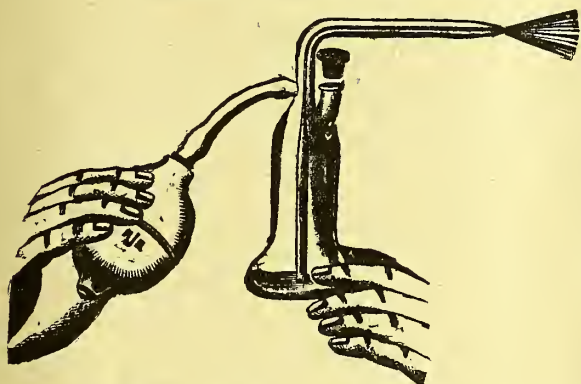
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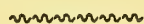
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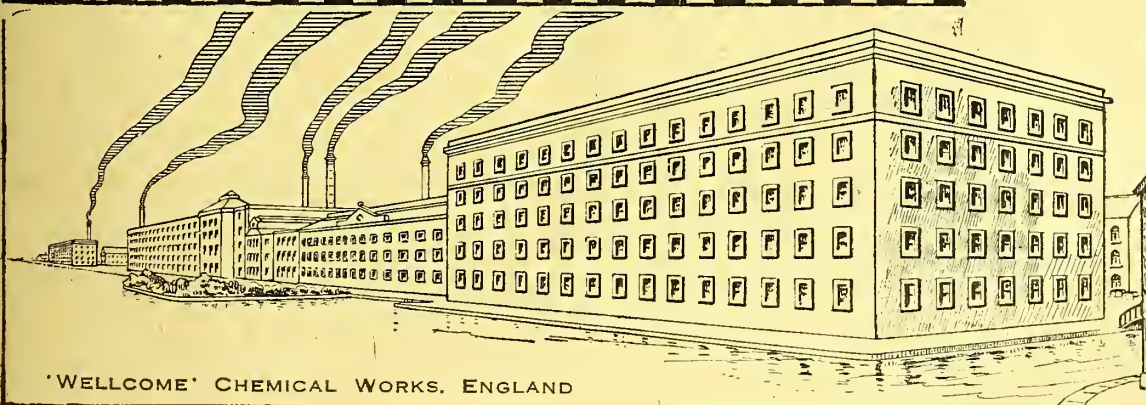
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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, January 21.

Foraday Society, Burlington House, Piccadilly, London, W. 1, at 5 P.M. Discussion on "The Theory of Ionisation," opened by Professor Geo. Senter, D.Sc.

South-West London Chemists' Association, Public Hall, Clapham, at 8.30 P.M. Miss A. T. Borrowman on "The Advantages of Shorter Business Hours."

Wednesday, January 22.

Royal Society of Arts, John Street, Adelphi, London, W.C. 2, at 4.30 P.M. Colonel H. G. Lyons, D.Sc., F.R.S., on "Meteorology during and after the War."

Industrial Reconstruction Council, Saddlers' Hall, 141 Cheapside, London, E.C. 2, at 4.30 P.M. Judge Edward Parry on "Industrial Reconstruction in Government Departments."

Thursday, January 23.

Chemists' Dental Society, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 6 P.M. Meeting. *Sheffield Pharmaceutical and Chemical Society*, Royal Victoria Hotel, at 3 P.M. Mr. W. S. Glyn-Jones, Secretary of the Pharmaceutical Society, will give an address on current topics. *Progressive Pharmacy Club*, Arundel Hotel, Victoria Embankment, London, W.C. Whist party open to members and friends. Tickets (2s. 6d. each) from Mr. Amos Jones, 78 Long Acre, W.C. 2.

Friday, January 24.

Royal Institution of Great Britain, Albemarle Street, London, W. 1, at 5.30 P.M. Lieut.-Colonel (T.) Dr. Andrew Balfour on "One Side of War."

Relaxation of Export and Import Prohibitions.

THE following alterations in the existing prohibitions of export have been made by the Board of Trade since our last published list (*C. & D.*, December 28, 1918, p. 51):

General Licences for Exports.

An open general licence is given to export to all destinations except the foreign countries defined in Section "c" (see *The Chemist and Druggist Diary*, 1919, p. 97), mixtures and preparations containing not more than 10 per cent. of aniline colour n.o.p.; phenalgin.

Headings Transferred from One List to Another.

From "A" to "C" lists: Beeswax; capsicum, including oleo-resin of capsicum; lac, not including lac dye; mineral jellies; motor spirit; mustard; oil fuel; oil-fuel shale; paraffin oil; petroleum fuel oil; petroleum gas oil; petroleum lighting oil; petroleum spirit and articles containing petroleum spirit; petroleum and its products not otherwise specifically prohibited and mixtures thereof; tar, vegetable; turpentine (oil and spirit) and articles containing turpentine; turpentine substitute and articles containing turpentine substitute; x-ray apparatus; acetic acid; acetic anhydride; acetylsalicylic acid (aspirin) and its preparations; anti-tetanus serum; arecoline; buchu-leaves; calcium carbide; calumba-root; cascara sagrada and its preparations; culvers-root; formic acid; formic aldehyde; hydrastis canadensis and hydrastine; liquorice root and juice; malefern rhizome; mannite; paraformaldehyde; podophyllum rhizome; sassafras-root; scammony-root; senega-root; trional; trioxymethylene; valerian rhizome; witch-hazel bark and leaves; zinc oxide and mixtures containing zinc oxides; uranium, alloys of uranium and uranium ores; vanilla and vanilla pods; aluminium nitrate; cassia pods and pulp; phosphorus compounds n.o.p. Certain phosphorus compounds are prohibited as manures. From "B" to "C" lists: Aluminium and alloys of aluminium; aluminium powder; antimony and alloys of antimony; antimony sulphides and oxides of, and mixtures containing sulphides and oxides of antimony. Osmium and its alloys and manufactures containing osmium; rhodium and its alloys and manufactures containing rhodium; ruthenium and its alloys and manufactures containing ruthenium; carbon disulphide; chlorates, metallic, other than potassium chlorate (which remains on list "A"); rhubarb, medicinal.

Headings Altered.

Delete.

- (B) Henbane and its preparations.
(A) Oils, fixed, all animal and vegetable and articles and mixtures containing such oils, except indiarubber substitute and oil varnish.

Substitute.

- (B) Henbane.
(C) Preparations of henbane not otherwise prohibited.
(A) Oils, fixed, all animal and vegetable, including blended oils and paint oils.
(C) Articles and mixtures containing fixed oils, not otherwise specifically prohibited.
(A) Potash, muriate, nitrate (saltpetre), sulphate and crude manurial potash salts, and mixtures containing any of these substances.
(A) Tartaric acid, cream of tartar, and alkaline tartrates.
(A) Tin, oxide of, and mixtures and preparations containing tin oxide.
(A) Zinc sulphide and mixtures containing zinc sulphide.
(A) Potash, muriate, sulphate and crude manurial potash salts, and mixtures containing any of these substances.
(A) Cream of tartar.
(C) Tartaric acid and alkaline tartrates n.o.p.
(A) Tin, oxide of.
(C) Mixtures and preparations containing tin oxide not otherwise prohibited.
(A) Zinc sulphide.
(C) Mixtures containing zinc sulphide not otherwise prohibited.

Exports to Switzerland.

The Director of the War Trade Department announces that an open general licence has been issued permitting the export to Switzerland of the following: Dental burs; dental filling materials; arsenobillon; arsenious acid; soda cacodylate; chromic acid; eucaïne; paraldehyde; phenacetin; salicylic acid; sodium arsenate; photographic goods, but not chemicals therefor. In the case of the following goods licences are still required, but consignment to the S.S.S. and production of S.S.S. certificates are not necessary: Aconite, preparations and alkaloids; amidopyrin; betanaphthol; essential oils; fructus fœniculi; hydrobromic acid; nitrate of silver; opium, preparations and alkaloids; sodium bromide; sodium nitroprusside.

B

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

War Regulations Altered.

Since our last issue the following Regulations or Orders under the Defence of the Realm Act have been altered or suspended. The references are to *The Chemist and Druggist Diary*, 1919:

P. 70. *Bismuth*.—The Bismuth Order, 1918, has been modified so that it is no longer necessary for those who, in any manufacture, use bismuth metal or any alloy of it to make to the Controller a monthly return showing the quantity of bismuth metal or alloy received by him from the producer and that consumed by him during the preceding month and his stock in hand. No return is required from any person whose total stock in hand and not intended to be used in connection with the manufacture or alloy of steel or other metal does not exceed in the case of bismuth metal or any alloy 56 lb.

P. 73. *Milk*.—The maximum retail prices for condensed milk are now: (1) Full cream, sweetened, 1s. 1d.; (2) unsweetened, 10d.; (3) machine-skimmed, 1s. per tin.

The Importation of Aniline Dyes.

In accordance with the scheme for affording State assistance to the dye industry, the Board of Trade have appointed the following members of the Trade and Licensing Committee: Lord Colwyn, Chairman; Mr. Henry Allen, Mr. Milton S. Sharp, and Mr. Lennox B. Lee, nominated by the Colour Users' Committee; Mr. T. Taylor, nominated by the National Federation of Associations of Paint, Colour, and Varnish Manufacturers; Mr. J. Turner, Dr. H. Levinstein, nominated jointly by British Dyes, Ltd., and Levinstein, Ltd.; Mr. W. J. U. Woolcock, M.P., O.B.E., nominated by the Association of British Chemical Manufacturers; and Mr. W. H. Dawson, nominated by the President of the Board of Trade. The functions of the Committee will be to determine the colours and intermediates which shall be licensed for import into the United Kingdom after the conclusion of peace, and in what quantities, and to advise the Commissioner for Dyes as to the colours and intermediates the manufacture of which should be specially encouraged and the order of their importance. For the purpose of the licensing of imports the Committee will appoint from among their own number four members as a Licensing Sub-Committee, two of whom shall be selected from the representatives of the dye-users and two from the representatives of the dye-manufacturers, the Chairman of the Committee being also the Chairman of the Licensing Sub-Committee. The Secretary of the Committee and of the Licensing Sub-Committee will be Mr. W. Graham, 7 Whitehall Gardens, London, S.W. 1.

The Sale of Morphine.

At an inquest held at Isleworth Infirmary on January 9, it was stated that the deceased, Mrs. Anna Greswold, seventy-six, had been a drug-taker all her life. She had lived with a married daughter for fifteen years, and had suffered from varicose veins. In the course of his evidence, Dr. Hope, who had attended deceased for some years, said he discovered about a year ago that Mrs. Greswold was in the habit of taking drugs. No one knew what the drug was, and he thought it might be aspirin, so he asked the son-in-law to try to find out. This he did by visiting Boutalls' shop, where he was given a packet which contained a white, amorphous powder, which he (the doctor) believed to be morphine. The powder was wrapped in ordinary white dispensing paper, unlabelled, and was enclosed in a sealed envelope. This packet he did not weigh, but a second packet obtained from the same shop by Mrs. Greswold's daughter he weighed, and found to contain 45 grains. This quantity the daughter said lasted her mother about three days, so he judged the deceased must have been consuming morphine in 15-grain doses. He advised that the woman be taken to a home, but she refused to go, so he put a nurse in charge, who discovered that Mrs. Greswold took the powder by moistening her finger with saliva, dipping it in the morphine, and then sucking her finger. Eventually he had the woman removed to the infirmary, as she was becoming mentally as well as physically weak. Evidence was given by Herbert Boyce, qualified chemist, and manager for Boutalls, Ltd., 5 Green Street, Leicester Square, W.C., who stated that he had sent morphine to Mrs. Greswold about every fortnight. He had made no entry in the Poisons Register because under the old Act it was a prescription, and there was no need to enter it. During the last few years, he said, they had hardly known

what to do in cases of this kind. If they refused the stuff the woman might die right off, so they decided to reduce the quantity supplied. The 45 grains was exceptional. He used to give her 20 grains, although she was entitled to 60. He did not enter the order in the Poisons-book under the new Act because directly they did so the woman would get no more and might die. It was sent by post, but was always labelled. He had never seen the original prescription: the order he had to execute was for 1 dram: 4s. The infirmity doctor said the primary cause of death was valvular disease of the heart and congestion of the lungs. He was inclined to add chronic morphine poisoning as having accelerated death. The Coroner gave a verdict in accordance with the medical evidence, but added that, as regards the morphine, the chemist had been very slack, seeing that he was bound by law to label the packages and to enter the order in his book. It was not for him but for other authorities to take any further proceedings that might be necessary.

Birmingham.

The T.N.T. factory at Oldbury is to be used for the manufacture of aniline dyes.

Miss D. Field, who has been dispensing at the Romsley Convalescent Institution of the Birmingham Corporation, has resigned.

Mr. Laurence Cadbury, who has been made an O.B.E. is a son of Mr. George Cadbury. He has also the Mons Medal and the Croix de Guerre.

Sir Rickman J. Godlee has been elected President of the Birmingham and Midland Institute. He is President of the Royal Society of Medicine and late President of the Royal College of Surgeons.

The University Sermon on January 12 at Carr's Lane Church was preached by Canon E. A. Burroughs, of Oxford. There was a full muster of professors, graduates, and undergraduates. Pharmacy was represented by Alderman Clayton, Mr. F. H. Alcock, and others.

At the Serbian Boys' Hostel, Selly Oak, a large number of boys from gallant little Serbia are being clothed, fed, and trained. The expenses are met by subscription. The list of subscribers include the following: Mr. W. A. Albright (50%), Sir Thomas Barclay (5l. 5s.), Mr. Geo. Cadbury (50%), Alderman Clayton (5l.), Mr. Alfred Southall, F.C.S. (2l. 2s.), and Mr. Wilfred Southall (20%).

The death occurred on January 10 at his residence, Hagley Road, of Mr. Sydney Johnson Porter, solicitor, who was a partner of the late Mr. Henry Glaisyer, who before acceptance of a Registrarship of the Birmingham County Court was solicitor to the Chemists' and Druggists' Trade Defence Association. Mr. Porter continued to act as solicitor in Sale of Food and Drugs Act cases after the Association ceased to exist.

Leeds.

The holiday season being over, business in Leeds is settling down to something like normal times.

The shortage of bottles is causing a decided slump in many proprietary goods, probably worse now than at any other time, and there is no hope of a better supply for some time to come.

Chemists have rarely had so many cheques returned as recently for infants' foods. There is great dissatisfaction over the method of distribution of one well-known brand. With the milk shortage in this city, infants' foods do not always go into a feeding-bottle by any means.

At the wedding of Miss Muriel Bowman (see p. 40), the bride was given away by her father. The bride and bridegroom left for Eastbourne after the ceremony. Among the presents were gifts from the office staff, the workroom employés, warehousemen, and the representatives of Goodall, Backhouse & Co.

There is a general feeling that for some months to come, until we get definite peace terms settled and demobilisation more certain, business will be considerably quieter. The increase of business has not been on the drug side particularly, but in sundries and toilet-preparations, for which the high wages of the now demobilised munition workers is responsible.

The early release of the "Specials" will be very acceptable to many men in the trade. The duty in many cases has been very exacting. Members of the Volunteer Corps are also enjoying a free Sunday morning. One of our Leeds men in the R.A.M.C., who overstayed his Christmas leave, was given the usual "C.B." on his return to duty. The delinquent says it was well worth it.

The window-display of two 56-lb. bottles of glycerin, with a notice that this article is now available in any reasonable quantity, was one chemist's way of calling attention to the return of this commodity. Strange to say,

there is no abnormal demand, as might have been expected. The price is already being "cut" by the multiple shop, and it looks as if the day of more adequate remuneration is still a long way off.

Chemists with apprentices in the Army, whose places have had to be filled during their absence with female assistants, are somewhat concerned about the return of these boys to business life. A man has often only room for a limited number in his shop. There will have to be readjustments, and in some cases hardships may occur to those who have helped to "carry on" at home. The question is: Can the drug-trade absorb all those who have come in during the last few years?

Liverpool.

The drinking of methylated spirit by women has greatly increased, says the Liverpool licensing justices, who recommend drastic measures.

Mr. and Mrs. W. H. Saunders assisted in the entertainment on January 11 at the Lyceum, Bold Street, at which four hundred children were present.

Now that the division of the Qualifying examination of the Pharmaceutical Society has entered the practical probabilities stage, the persistent advocacy of that change by Dr. Symes for many years is gratefully recalled.

A record year of rain, one not paralleled for forty-three years, is being followed by copious downpours, with brief spells of fair weather, this month. Pharmacists will long remember the effect on the demand for specifics associated with months of flood. Many of the old proprietary lines would command a record sale if obtainable.

A Glasgow fitter named Vance was sentenced to twelve months' imprisonment at the Liverpool County Quarter Sessions, on January 14, for robbing his landlady and her daughter. He had been previously convicted of a like offence, and had twice deserted from the Army. In Birkenhead, Bootle, and Dublin he had posed as "Vance, M.D.," and "Lee, M.D.," and while awaiting his trial received an offer, on spurious certificates, of a post as ship's surgeon at 30*l.* monthly, plus rations and bonus.

Nottingham.

Several qualified chemists have returned to civil life this week under the arrangements for the release of pivotal men, much to the joy of their employers. A number of Messrs. Boots' employes, who were on leave, a few days ago were suddenly informed that they had been demobilised.

Five hundred girls employed in the drug-manufacturing department of Boots, Ltd., have just received an advance of 5*s.* a week. One of the most interesting sights at these works is the canteen, where 1,500 dinners are provided daily, the women paying sixpence and the men from eightpence to a shilling for a first-class meal.

Chemists are complaining that there is even greater difficulty in getting supplies now than when the war was at its height. This is particularly the case in regard to children's milk foods. The ordinary milk supply of this city has given such grave cause for complaint lately, both as to quality and quantity, that medical men show a growing inclination to order Allenbury's, Glaxo, and other well-known preparations.

Sheffield.

Dr. Scurfield, medical officer of health, has been appointed Hon. Secretary to the Sheffield Infants' Welfare Committee.

Mr. Wm. Gregory, chemist and druggist, who for some years has been in the retail department, has been appointed by G. T. W. Newsholme, Ltd., as their representative in the place of the late Mr. Booth, who held the position for twenty-five years.

An applicant at the City Courts for an ejectment order against a sub-tenant gave as a reason for applying that the health visitor had threatened to stop her supply of Oxo and Virol if she persisted in overcrowding the premises. The application was granted.

The meeting of the Sheffield Pharmaceutical and Chemical Society, to be held next Thursday at 3 P.M. at the Royal Victoria Hotel, is to be addressed by Mr. W. S. Glyn-Jones. The meeting will be followed at 6.30 for 7 P.M. by a dinner to mark the occasion of the Jubilee of the Society. It is hoped that the President of the Pharmaceutical Society will be present. Chemists from the neighbouring districts will be welcomed.

Miscellaneous.

POISONING CASE.—Superintendent Hassell, Hemel Hempstead, committed suicide with prussic acid which he obtained from a Berkhamstead chemist for the alleged purpose of poisoning a dog.

BRITISH SACCHARIN.—The Royal Commission on the Sugar Supply has withdrawn the control on the price of tablets. The price of British saccharin in bulk to manufacturers has been slightly reduced.

WAR AUXILIARY BENEVOLENT FUND.—Mr. R. Anderson, Sunderland, points out that the amount contributed by the local Association should be 15*l.* 15*s.* (see *C. & D.*, January 11, p. 33).

ANALYSTS' REPORTS.—The report of the Wolverhampton public analyst states that three samples of ground ginger and three of white pepper were examined during the quarter and were found genuine. The unsatisfactory samples analysed in Essex last quarter included nineteen of Epsom salts.

SCHUTZE'S PARTY.—The employes of F. Schutze & Co., Ltd., Black Bull Works, Caledonian Market, London, N., held their annual social party at the Foresters Hall, Highgate Road, N.W., on January 4. Tables were arranged for about 120, which number was considerably increased in the course of the evening by the presence of friends. Mr. Schutze opened the concert with a short speech, at the end of which he asked those present to join him in singing the National Anthem. The programme, consisting of songs and dialogues, was carried out by the employes and their friends. After the concert there was dancing.

IN THE COURTS.—A Newcastle trader named Scott was on January 10 charged with selling as vinegar a liquid which consisted of tartaric acid 3.8 per cent., colouring-matter, and water. The defence was that the substitute cost more than vinegar, and customers were told it was a substitute. The case was dismissed on payment of costs.—At Cardiganshire Quarter Sessions, on January 10, Raymond Alan Watkin was indicted for breaking into the premises of Boots, Ltd., chemists, Aberystwyth, and stealing goods to the value of 31*l.* 1*s.* 10*d.*, and Elsie Mary Hewitt, a London typist, was charged with receiving the stolen property. Both pleaded "Guilty," and the man was stated to have been gassed in France. Watkin was committed for twelve months in the second division, and Hewitt for twelve months' hard labour.—At St. Helens County Court, last week, John Thomas Remshaw, drysalter, Preston and Wigan, sued Samuel Jameson, grocer, St. Helens, for the balance of an account. It was stated that the plaintiff sold the defendant saccharin tablets to the value of 12*l.* 12*s.* 10*d.*, and 9*l.* was left owing. When the plaintiff called again, however, Mr. Jameson wanted him to take the tablets back, and replying to his Honour, he stated, "The tablets were no good to me, as it would take me till Doomsday to sell them." Judgment was entered for the amount claimed.—At the Thames Police Court on January 9, Chong Fook (30), a Chinese subject, was fined 40*s.*, or seven days, for being in possession of opium and opium-smoking utensils.—At the London Sessions on January 10, the appeal of Ada Lo Ping You, wife of a Chinaman, against the sentence of five months' imprisonment recently passed upon her by Mr. Mead, at Marlborough Street Police Court, for unlawfully preparing opium for smoking, was dismissed (*C. & D.*, 1918, p. 1036).—At the Tower Bridge Police Court on January 15, Austin Gordon Lovell Pennock, air mechanic, was charged with procuring six tubes of cocaine and selling two of them, and Mark Twiss, assistant to Mr. F. C. Duggleby, chemist, 88 Waterloo Road, S.E., was charged with procuring the two tubes from Pennock. Pennock had been arrested in consequence of information conveyed to the police by the authorities of the Union Jack Club. He was found to have in his possession a small case containing drugs, the following being mentioned in court: Cocaine hydrochlor., morphine tartrate, apomorphine hydrochlor., strychnine hydrochlor., digitaline, fluoresceine, pilocarpine nitrate, homatropine hydrobrom., atropine sulphate, physostigmine salicylate, and adrenalin. [It was apparently a case of hypodermic tablets, such as doctors carry for use in emergencies.—EDITOR.] Pennock made a statement to the inspector at the police station that he had purchased the case for 15*s.* from a soldier at Winchester Camp, and that he had sold two tubes of cocaine to a chemist in Waterloo Road, London, to whom he took the case in order to ascertain its value. The inspector afterwards interviewed Twiss at 88 Waterloo Road, who told him that he purchased the two tubes for 9*d.*, as he thought it was better that they should be in his possession than in Pennock's. He did not mention the matter to his employer, and had no idea that what he was doing was contrary to the Defence of Realm Regulations. Pennock said that soldiers were constantly purchasing different things from each other. He had no idea what the drugs were used for. Pennock was remanded in custody, and Twiss on 20*l.* bail.

Irish News.

Pharmaceutical Society of Ireland.

The following are the results of the recent examinations: *Preliminary Examination*.—The following passed with honours: Annie Jane Buick, Glarryford, co. Antrim; Gertrude Margaret Mary O'Dea, Dublin. The following also passed: Eden Lynch, Skibbereen; John Gleeson, Fedamore, Kilmallock; Eunice Mary Harriet Leslie, Fermoy; Michael Solomon Rothstein, Dublin; Kate Mary Brennan, Carlow; Wm. James Young, Omagh; Eileen Dec, Dunbarvan; Patrick James Moran, Askeaton; Christopher Patrick Nolan, Rathvilly; James Leo McKernan, Kings-town. Ten candidates were rejected.

Pharmaceutical Licence Examination.—The following passed: John Joseph Mackey, Ennis; Morris Price, Dublin; Charles Frederick Kirwan, Ballinrobe; Richard Morrow Thom, Tereure, co. Dublin; Patrick Joseph Quinn, Aughamullin, Tyrone; David Eppel, Dublin; Michael Harris, Prosperous, co. Kildare = Christopher Henry Williams, Rathdrum. Six candidates were rejected.

Lighting Order Prosecution.

At Cavan Petty Sessions, on January 10, Miss R. T. O'Connor, Ph.C., Main Street, was prosecuted for a breach of the Lighting Order on December 11 and 12. A police-sergeant said he found the lights burning at 8 p.m. The boy who opened the door to him said he was dispensing medicine. There was no one in the shop but the assistants. For the defence, Mr. W. J. Fegan said important principles were involved in the health of the community, and the Order was never intended to interfere with the supply of medicines to the sick. A man came in shortly after seven o'clock and handed in a prescription, and as it would take some time the customer said he would call back for it. The assistant was actually engaged compounding when the sergeant came to the door. The next night a prescription was being made for Dr. Burke, Ballinagh. Evidence was then called, after which the Chairman said that if the assistant had told the sergeant what he had told the Court there would have been no prosecution. Inspector McEntee said he agreed. The case was then dismissed.—There was a similar case against Mr. J. J. Cole, J.P., Ph.C., who did not adjudicate in the foregoing. Mr. Cole laughingly remarked he had never heard of the summons before. Constable McCue proved service of the summons by leaving it with his assistant, Mr. Davidson, in the shop. The case was adjourned to next Sessions.

Brevities.

The Tipperary Board of Guardians have unanimously increased the salary of their compounder (Mr. P. J. Maloney) by 50*l.* a year.

Mr. W. B. Harrington, Hon. Treasurer of the Cork Industrial Development Association, has retired and has been elected a life member.

At Tuam Petty Sessions, Maria Brown, Culnafay, was fined 3*s.* 6*d.*, and costs, for supplying Epsom salts containing 20 parts per million of arsenious oxide.

Mr. J. J. Cole, Ph.C., Cavan, has been appointed to the Commission of the Peace of that county, and was sworn in at the fortnightly Court of Petty Sessions on January 10.

The North Irish Pharmacists' Association has affiliated with the Belfast and District Chamber of Trade, an organisation for the purpose of protecting retailers' interests.

The Larne Urban District Council has just received intimation that the Lord-Lieutenant has confirmed the chemists' closing order under the Shops Act, 1912, made on November 4 last.

The death took place on January 5 of Mrs. Anna Maria Clotworthy, widow of Mr. Samuel Clotworthy, for many years head of one of the leading wholesale drug houses in Belfast, which has passed out of existence.

At Strabane on January 7, a man named Patrick McLoughlin was charged with the theft of articles to the value of 7*s.* from the shop of Mr. James Hill, chemist. He pleaded guilty, and, on promising to pay compensation, was discharged with a caution.

Negotiations are proceeding between the National Amalgamated Union of Shop Assistants, Warehousemen and Clerks and Boileau & Boyd, Ltd., wholesale druggists, concerning the interpretation of certain points of the agreement reached in November last.

The annual meeting of the North Irish Pharmacists' Association has been fixed for February 5. The business meeting will be followed by a social and an educational evening. The Chemists' and Druggists' Society of Ireland will hold its annual meeting in the same month, and the Ulster Drug Trade Association in March.

At Belfast Police Court last week the magisterial inquiry was concluded into the charge of murder preferred against Norman O. McConnell, proprietor of the Medical Hall, 113 North Street, in respect of the death of Ellen Jane Reid, aged twenty-six, on November 3, 1918. Mrs. Mabel Hopkins, Earlsdon, Coventry, identified three letters produced as being in her handwriting and addressed early in 1918 to Dr. McConnell, whom she did not know. She wanted a certain medicine from Dr. McConnell. She sent a sum of 30*s.* to Dr. McConnell in postal orders, and got by parcel-post a bottle of medicine and a box of pills, and later on a second parcel. She afterwards got a letter asking for more money, but she did not send any. Other witnesses were called, and the accused were committed for trial at the Assizes, bail being refused.

At the annual meeting of the North and West of Ireland Commercial Travellers' Association in Belfast on January 11, Mr. Thos. W. Gibson was elected President for the ensuing year. Mr. Gibson, who is a native of county Londonderry, has been with Thomas McMullan & Co., wholesale druggists, for thirty-one years, and for twenty-eight years has been their principal city representative. He is a member of the Belfast Cathedral choir and one of the most enthusiastic members of the Belfast Amateur Operatic Society. Mr. Gibson is also a member of the Masonic Order, a Vice-President of the Belfast Charity Fund, and P.M. of 667 and of Commercial Lodge 418. The annual report of the Association contained an appreciative reference to the late Mr. Wm. Jamison, of Shaw & Jamison, wholesale druggists, Belfast, and ex-President of the Chemists' and Druggists' Society of Ireland, who died during the year.

Scottish News.

Brevities.

Sergeant W. Michie, 1st K.O.S.B., brother of Mr. D. C. Michie, chemist, Hawick, has been awarded the D.C.M.

Chemists have now practically no demand for an embrocation which created so much talk in wholesale and retail circles. The ability to supply an equally good article at a better profit is the secret.

They were discussing the vexed question of adequate remuneration for assistants. "At any rate," murmured the older employer, a rather kindly pharmacist, "I'm glad all my quondam masters have drifted to a better land—where there is no parting!"

Handing a sweep half-a-crown the other morning for a few minutes' work, and watching him walk away with the soot from the chimney to turn into current coin also, a pharmacist could not help thinking that there are more profitable occupations than Insurance dispensing.

"Into my pharmacy to-day," writes a Fifeshire chemist, "there stepped a ten-year-old urchin, who requested 'A pennyworth o' sugar ally' (Succus Solazzi). On being informed that the smallest quantity would cost him fourpence, he inquired, 'Will it no be cummin' cheaper yet?'"

It is suggested that chemists should institute an advertising crusade against the Co-operative retailing of packed goods and proprietaries. When chemists can convince the public that to buy an article for 1*s.* 8*d.* (with 2*d.* on the 1*s.* dividend from the Stores) which the chemist sells for 1*s.* 1*d.* is poor business, all will be well.

As a sign of the times, it is stated that a large number of chemists' businesses in Scotland are at present on the market. Now that 6*l.* and 7*l.* per week of a fixed salary is assured, and 5 per cent. interest on capital can be got, it is a wonder, according to some commentators, that even more businesses are not closed down.

Reporting to the Highland and Agricultural Society, Dr. J. F. Tocher, chemist, states that a sample of East Coast guano he analysed yielded 1½ per cent. nitrogen, 8½ per cent. insoluble phosphates, and ½ per cent. potash. A sample of peat gave very poor results compared with other localities, calculations showing a yield of only 1 cwt. sulphate of ammonia per 1½ tons peat.

Much interest attaches to the fact that since the war a mineral has been found and quarried in the Saltcoats and Kilwinning districts having the formula: Silica, 35.40; alumina, 41.50; ferric acid, 4.95; calcium, 1.20; magnesia, 0.50; loss on ignition, 16.45. Before the war a powder inferior to this was imported from Germany for use in hardening firebricks for steel furnaces. The importation, of course, stopped in 1914, but since then the above mineral has proved of enormous value to the steel industry. It transpires that the German powder was imported as mineral from a neighbouring country into Germany, where it was ground and shipped here; but now we are doing without Germany.

Dundee.

Dundee chemists now close at 8 p.m. on Saturdays. The new closing came into force after January 11, and the fact was prominently advertised in the local Press.

Local chemists are complaining that they cannot recall any trade intimation regarding the introduction of Genasprin, which, however, is being advertised to the public in the Scottish newspapers.

It is announced that Professor Patrick Geddes, who has been in the Chair of Botany in University College, Dundee, since 1898, will retire at the end of the present year. Professor Geddes has attained a world-wide celebrity, and his retirement will be much regretted.

Edinburgh.

A local practitioner is prescribing mixtures containing sod. bicarb. and bismuth. salicylat., which he directs to be prepared with hot water.

In some districts licensed dealers are very unwilling to supply brandy and whisky in small quantities to persons with the requisite medical authority. The successful plan is to secure a handy policeman as chaperon.

At the first meeting of the Edinburgh, Leith and District branch of the Commercial Travellers' Association on January 11, Mr. G. H. C. Rowland, chemist and druggist, was elected a member of the Entertainments Committee.

A woman, named Catherine Gray, was sent to prison for three months by the Sheriff, on January 7, for tendering a farthing in a chemist's shop in the Grassmarket, Edinburgh, and inducing the assistant to supply a tonic drink and 9s. 6d. change.

The high price of linseed-meal—10d. to 1s. per lb.—has possibly induced the faculty to prescribe other things. One doctor says that a thin, smooth paste of pure mustard and oil, applied externally, is admirable for bronchitis, etc., while another has been ordering cloths wrung out of hot water and mustard for the similar ailments.

Captain Alexander Gemmell, D.Sc., who has died as a result, it is stated, of illness caused by conducting experiments in poison-gas research, was a son of Professor G. H. Gemmell, of the firm of Readman & Gemmell, analytical chemists, Edinburgh. He was assistant to the Professor of Chemistry at Edinburgh University for two years before joining his father in business. When the war broke out he rejoined the University O.T.C. and commanded his unit for a year. Later he was appointed to the command of the Anti-Gas School, Scottish Command, but in 1917 he was transferred to the Anti-Gas Department, University College, London, where (like the late Captain B. M. Brander, of the C. & D. staff) he worked under the late Lieutenant-Colonel Harrison.

Glasgow and the West.

The Glasgow police have made several sensational arrests in connection with the issue and circulation of counterfeit Treasury notes in and around the city. A complete lithographic outfit has been seized.

Greenock has earned a new reputation. It is claimed that Ned Kelly, the notorious Australian bushranger, was born in "Driepopolis," and a Greenock chemist claims a kinsman of Ned's as one of his customers. We hope he does not develop his notorious relative's wilder propensities.

At a meeting of the Court of Glasgow University on January 9, Sir Donald MacAlister intimated that Mr. W. G. Gardiner and his brother, Mr. F. C. Gardiner, ship-owners, had given 60,000l. to endow three new Chairs in the University—one of Bacteriology, one of Organic Chemistry, and a third of Physiological Chemistry. This gift will add greatly to the teaching-power of Glasgow University, in which there is already in the Faculty of Science a Chair of Chemistry, which was founded by George III. in 1817.

DEMobilISATION.—The Ministry of Labour have circulated the following replies to doubtful points that had been submitted to them: Officers and men in hospital will be demobilised so soon as they are discharged from hospital, with the exception of certain special cases and of men who have been less than twenty-eight days in hospital. Men over forty-one whose demobilisation has been ordered are (a) men who had attained the age of forty-one years when posted under the Military Service (No. 2) Act, 1918; (b) men who, having completed their engagements, were retained under the Military Service (No. 2) Act, and are over forty-one years of age; (c) men who volunteered for the duration of the war and who attained the age of forty-one years on or before April 18, 1918, and men who were serving on a normal engagement and who agreed to continue to serve for the duration of the war, and who attained the age of forty-one years on or before April 18, 1918. The above applies equally to those men who have since obtained commissions.

French News.

(From the "C. & D." Paris Correspondent.)

DRIED EGGS.—M. L. Garnier, professor at the Nancy Faculty of Medicine, has analysed the well-known powdered dried eggs. He classes them "among the substitutes of good quality and real alimentary value, of which the use may be recommended to the public when fresh eggs are unobtainable." He was unable to satisfy himself as to the real origin of samples, but understood they were Japanese or Chinese. He adds that a kilogramme (roughly, 2 lb.) of the powder represents the value of sixty-six average eggs.

FRENCH EXPORTS.—Mr. C. N. Hurley, Director of the U.S. Emergency Shipping Board, is at present in Paris. He proposes to utilise the million and a half tons of American shipping, which at present recrosses the Atlantic principally in ballast, to convey cargoes of European products to transatlantic ports. One of the most important items should be potash, of which the United States requires some 600,000 tons per annum, and has received very little since the war. The Alsatian potash mines, situated near Mulhouse, are one of the principal mineral resources of the restored provinces. Their value has been estimated at 50 milliards of francs.

DEMobilISING PHARMACISTS.—M. Louis Mourier, Under-Secretary of State for Sanitary Services, assured the French Parliament that Army surgeons and pharmacists are being steadily demobilised according to age. The "1891 class"—i.e., men of forty-eight—were freed early in December. Other "classes" have followed; the "1896-97" men (forty-three and forty-four years of age) are at present being sent to their districts, to be formally discharged later. This reduction of staff has been rendered possible, in spite of the fact that some 180,000 men are still in the hospitals, by grouping the wounded in large centres and steadily abolishing small isolated establishments.

THEIR SONS.—M. René Perrot, son of the Professor of Materia Medica at the Paris School of Pharmacy, was twenty years of age, and had already been twice wounded and twice cited for gallant conduct when he fell at the head of his men.—Lieutenant Guerbet, another victim of the war, was the son of the head pharmacist of the Tenon Hospital, Paris.—Dr. Henri Martin, President of the General Association of French Pharmacists, has lost his son Edward. He died of pneumonia, but had served in the army, won the War Cross, and been for some time a prisoner in Germany.—Adjutant J. F. Roques, who has been awarded the Military Medal and cited for the fourth time for brilliant services in aviation, is the son of the well-known wholesale druggist in Paris.

ON THE DOWN GRADE.—One of the duties of M. Balland, the well-known army pharmacist, in his laboratory at the Invalides, has been to analyse samples of food, etc., captured from the enemy. His report, just published, throws a curious and interesting sidelight on the results of the blockade of Germany. The samples of flour captured in November 1914 consisted of wheat and rye mixed. In March 1915 it was pure rye-flour. An army bread sample in January 1916 showed rye mixed with smaller quantities of wheat and maize. In February 1917 unbolted rye-flour was used, and in May 1917 the same flour, but mingled with sawdust, which M. Collin, the well-known micrographer, declares to be that of popular timber. "Such bread is famine bread," adds M. Balland. Even during the siege of Paris, in 1871, sawdust was never used, he remarks. It is interesting to note that while the German Army ate pure rye bread (November 1915) the flour used to make bread for prisoners at the camp of Lechfeld (Bavaria) was common tapioca powder. Bread and flour were, of course, not the only matters analysed. A small packet (October 1916) was saccharin, used to replace sugar in hot beverages. A tin contained slabs of paraffin wax suitable for trench cookers. The tinned soups dated 1912 and 1913 contained "a larger proportion of fatty matter" than those of 1916. A "Russian pomade" of soft paraffin, camphor, tar, and aniseed oil was evidently a precaution against insect pests. A cake sent from Karlsruhe to a lieutenant in November 1917 was composed of wheat and rye flour and potato flour flavoured with cinnamon. Of two "tobacco" samples taken in February 1918, one only contained any tobacco. The other was a heterogeneous mixture in which hops, elder pith, rushes, and leaves and small stalks of half-a-dozen herbs (mint, fennel, etc.) figured. In the same way a packet of "tea" sent from Hamburg in 1917 contained samples of several plants used for medicinal infusions (mint, verbena, ivy, hyssop, etc.), but no trace of the genuine product of China or Ceylon.

Java Cinchona Companies.

ACCORDING to the 1917 report of the West Java Cinchona Planting Co., of the 931 bouws maintained under permanent crops 108 are occupied by cinchona, 771 by tea, 46 by timber, and 5 by nurseries. The further exploitation of cinchona at Panjajaran is under consideration; this question has been investigated by Van Vloten and Reynst. The former states that the replanting of land with cinchona immediately after clearing gives disappointing results, as time is required to get rid of root-canker and to allow the soil to recover the proper texture. According to this expert the cleared land should be used for timber production for about twelve years. Mr. Reynst is also against replanting immediately, either with cinchona or tea, and recommends a long fallow, though he points out that the growth of albizias would be useful as a means of adding nitrogen, and improving the texture of the soils. Either of these courses implies considerable expense, and a decision as to which, if either is to be followed, has not yet been arrived at. The bark harvested amounted to 156,571 kilos., which on drying yielded 52,350 kilos., containing on the average 6.7 per cent. of genuine sulphate, compared with 7.14 per cent. in the previous year. The average net price realised was 10.574 cents, against 11.366 cents in 1916. Owing to the absorption of Dutch shipping for Allied requirements, 20,083 kilos. of bark despatched to Amsterdam did not arrive, but was diverted partly to the United States (6,928 kilos.) and partly to the United Kingdom (13,150 kilos.). The rest of the report deals chiefly with the culture of the tea-gardens and the 1917 tea-harvest.

The Soekaboem Planting Co. is concerned chiefly with tea, rubber, and cinchona. With regard to cinchona the company's 1917 report states that the temperature was not quite so favourable as in 1916. The nurseries and young plantations did well, but the established gardens experienced a good deal of trouble with fungoid diseases, including "djamer cepas." Shipping difficulties were more acute than in 1916, and even at the beginning of the year it was not possible to ship anything except one cargo to London and another to North America. The situation was relieved to some extent by the extension of the Bandoeng Quinine Works, which made it possible to work up much of the bark in Java. The extent of this development may be gauged from the fact that the deliveries at Bandoeng of "quinine in bark" in 1917 were 146,889 kilos., against 96,072 kilos. in 1916, the corresponding shipments to Amsterdam being 348,118 and 485,629 respectively. The small deliveries to Amsterdam have led to a great reduction in stocks in that market. The stock on December 31, 1916, was 47,303 bales, of which only 1,384 remained on December 31, 1917. As the imports to Amsterdam were 25,098 bales in 1917, the quantity leaving the warehouses during the year amounted to 71,017 bales. The number of cinchona undertakings is given officially as 106 (102 in Java and 4 in other islands), with 144,468 hectares under cinchona alone and 13,738 hectares on which cinchona and other crops are intermixed; the productive area is 130,859 hectares. The demand for druggists' bark in 1917 was good, possibly owing to the scarcity of other kinds, the total sales being 284,312 kilos., containing 7,556 kilos. of quinine sulphate. The following are given as the sales of cinchona bark in Amsterdam in recent years:

1912	6,635,401 kilos. of bark containing 398,535 kilos. of quinine
1913	7,771,020 " " 458,204 " "
1914	7,375,874 " " 419,306 " "
1915	7,014,498 " " 418,495 " "
1916	7,895,352 " " 488,694 " "
1917	5,821,250 " " 355,674 " "

The report refers in complimentary terms to the work of the Association for the Promotion of the Interests of Cinchona Producers in calling attention to the grievances of cinchona planters, and goes on to discuss the contract with the quinine manufacturers. This contract, it will be remembered, came to an end in July 1918, but has now been renewed between the Dutch quinine factories (including Bandoeng) and the Dutch-owned plantations in Java. The information on this point in the report is therefore out of date, though it contains some items of interest. With regard to druggists' bark, it is suggested that some ruling should be made regarding price, so that druggists in the Dutch East Indies may not have to re-import this type of bark from Amsterdam; further, the minimum price should be fixed with some regard to the demand for and supply of this bark; the present minimum is said to be too high. Another question is that of the export of bark in a reduced form (apparently some kind of extract is intended) in order to save shipping space, which will be scarce for

some years to come. It is also suggested that the Kina Bureau, in making sales of bark, should have available both the producers' and the manufacturers' analyses. The method of regulating allowances for bark delivered at Bandoeng also needs attention, as well as the method of allocating quantities of bark to be shipped by the various undertakings, so as to permit of better control by the Bureau. At the end of December, the report continues, it seemed unlikely that the contract would be renewed; the English companies owning cinchona estates in Java were inclined to withdraw, and there was every prospect of a failure to keep together the quinine manufacturers in various countries. It was in these circumstances that negotiations were undertaken to bring about an understanding between the Dutch quinine factories and the Dutch-owned plantations, which, as already mentioned in the C. & D., have proved successful. Further information on this subject is promised in the company's next report.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

THOMAS KERFOOT & Co., LTD. (P.C.).—Capital 75,000*l.* Objects: To take over the business of manufacturing chemists carried on by T. Kerfoot and E. H. Kerfoot at 317 Upper Street, Islington, and at Bardsley Vale Mills, Bardsley, Lancs, as "Thomas Kerfoot & Co." Governing director: T. Kerfoot, Pole Gate Hall, Gee Cross, Ches.

BRITISH LACTIC PRODUCTS, LTD. (P.C.).—Capital 10,000*l.* Objects: To take over the business of manufacturers of and dealers in lactic acid, lactic products, preserved and concentrated foods, including eggs, etc., formerly carried on at 75 Mark Lane, E.C., and at Belgrave Works, Wellington Road North, Hounslow, as "Tattersall's British Lactic Products." R.O., 75 Mark Lane, London, E.C.

T. J. WILLIAMS, LTD. (P.C.).—Capital 500*l.* Objects: To carry on business as chemists, druggists, dentists, opticians, manufacturers of perfumes, hair-dyes, toilet goods, and furniture-dyes, etc. The subscribers (each with one share) are: T. J. Williams, 323 Coventry Road, Birmingham, and E. Baylis, 9 Banks Road, Small Heath, Birmingham. Solicitor: H. Cant, 33 Newhall Street, Birmingham.

JOINT-STOCK COMPANIES.—The names of the following companies have been struck off the Register, and the companies have been dissolved: Dental Anæsthetic Supply, Ltd.; Medical Magazine, Ltd.; Mineral and General Products Agency, Ltd.

A JAM COMBINE.—Crosse & Blackwell, Ltd., have effected a fusion of interests with J. Keiller & Son, Ltd., Dundee, and E. Lazenby & Son, Ltd., London. Each company is to retain its individuality, and will continue to manufacture independently. It is hoped greatly to extend export trade while effecting increased production. The paid-up capital is: Crosse & Blackwell, 568,000*l.*; J. Keiller & Son, Ltd., 344,000*l.*; and E. Lazenby & Son, Ltd., 249,000*l.*; total, 1,161,000*l.*

OWANA SOAP Co., LTD.—In the Chancery Division on January 14, before Mr. Justice Astbury, application was made for the compulsory winding-up of this company. Mr. Paterson, for the judgment creditor at whose instance the petition was issued, stated that although certain sums had been paid, practically nothing had been paid for a year. Mr. Owen Thompson, who appeared for the company, said that the principal and interest now due was only about 160*l.*, and he agreed to pay this money by the Saturday following, failing which he would definitely consent to a winding-up order on the following Tuesday. Mr. Paterson accepted this suggestion, in which his Lordship concurred.

GERMAN CHEMICAL COMPANIES.—The directors of the Vereinigte Chemischen Fabriken zu Leopoldshall A.-G. stated at the recent general meeting that the provision for reserve had been raised to the legal maximum of $\frac{3}{4}$ per cent. of the share capital. A 6 per cent. dividend was declared. At the general meeting of the German Gelatine Factories, Höchst a. M., the dividend was fixed at 16 per cent., and it was decided to move from Höchst to Frankfurt. Discussing the outlook, it was agreed that the political situation would not greatly affect the company, provided always the Bolshevik tendencies did not get the upper hand. The close of the war would not do much to improve the supplies of raw material. The net profits equalled m.539,846, and a balance of m.59,846 was carried forward. The Chemical factory "Rhenania" at Aix-la-Chapelle has acquired all the works of the Rhenish Portland Cement Factory at Cologne, which is in liquidation, for the sum of m.1,675,000.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

SCOTLAND.

December Drug Tariff.

The December supplement shows thirty-six increases and thirty decreases in the prices of drugs and chemicals, as follows:

Name.	oz.	dr.	Name.	oz.	dr.
s. d. s. d.	s. d. s. d.	s. d. s. d.	s. d. s. d.	s. d. s. d.	s. d. s. d.
Acetanild. ...	1 0	0 2	Lin. calcis ...	0 2	0 0½
Acid. acetic. ...	0 2	0 0½	Liq. morph. acet. ...	0 11½	0 2
" glacial. ...	0 5	0 1	" hyd. ...	0 8	0 1½
" hydroch. dil. ...	0 1	—	Lith. caro. ...	2 1½	0 4
" nitric. dil. ...	0 1	—	" cit. ...	2 1½	0 4
" nit.-hyd. dil. ...	0 1	—	Malourea ...	12 7½	1 10
" salicyl. ...	0 8½	0 1½	Ol. abietis. ...	2 4	0 4
" sulph. dil. ...	0 1	—	" caryoph. ...	2 11	0 5
" tannic. ...	1 10	0 3½	" menth. pip. ...	5 2½	0 9
Bals. peruv. ...	2 10	0 5	" ricini. ...	0 2	0 0½
Calc. glycerophos. ...	2 7	0 4½	Phenacetin ...	2 7	0 4½
Chloramidum ...	6 8	0 11½	Phenazon. ...	7 8½	1 1½
Chloral hydras. ...	2 1½	0 4	Phenolphthalein. ...	5 4½	0 9½
Codæina ...	—	9 4	Pulv. amygd. co. ...	0 10	0 1½
Codæine phosphas. ...	—	8 5	" kino co. ...	1 8½	0 3
Conf. Scnna. ...	0 3½	0 0½	Quin. hydroch. ...	7 8½	1 1½
Dec. aloes co. ...	0 2	0 0½	" acid. ...	8 5	1 2½
Emul. ol. morrh. ...	—	—	" sulph. ...	5 1	0 9
cum. hyp. ...	0 4½	0 1	Sacch. lact. ...	0 5	0 1
Ergotin (H.P. 1898) ...	7 11½	1 2	Santonin ...	—	3 6
Ext. cinchon. liq. ...	0 7	0 1	Sod. glyceroph. ...	—	—
" ergot. ...	—	1 1	(50%) ...	1 5	0 2½
" glycyrrh. liq. ...	0 7	0 1	" (100%) ...	3 9	0 6½
Ferrum tart. ...	0 6½	0 1	" phos. eff. ...	0 5	0 1
Gly. acid. boric. ...	0 6½	0 1	Sulphonal ...	15 5	2 2½
" carbol. ...	0 6	0 1	Syr. chloral ...	0 7½	0 1½
" tan. ...	0 9	0 1½	" pruni virg. ...	0 3	0 0½
" belladon. ...	0 11½	0 2	" zingio. ...	0 2½	0 0½
" boracis ...	0 5½	0 1	Thymol. ...	6 8	0 11½
" pepsin. ...	1 1	0 2	Tinct. belladon. ...	0 7½	0 1½
Hexamina ...	1 3½	0 2	" guafac amm. ...	0 10	0 1½
Hyd. subchlor. ...	1 2	0 2	" iodi fort. ...	0 9½	0 1½
Lin. ammon. ...	0 3½	0 0½	" quin. ammon. ...	0 6	0 1
" belladon. meth. ...	1 0	0 2	" valer. ammon. ...	0 7	0 1

Proprietary Articles Trade Association.

A meeting of the Council of the Proprietary Articles Trade Association was held at the Holborn Restaurant, London, W.C., on January 9. There were present: Messrs. J. G. Atkinson, G. R. Barclay, Dr. A. J. Barnes, W. C. Birks, G. H. Burroughs, R. Feaver Clarke, W. L. Currie, H. Wip-pell Gadd, John Keall, J. A. Kenningham, A. R. Keith, S. Kutnow, W. Lane, J. McCaig, J. Milner, F. R. Newbery, S. N. Pickard, E. Pickering, Dr. J. J. Pilley, F. W. Powell, H. M. Read, P. F. Rowsell, F. J. Smith, J. A. South, A. T. Webb, W. H. Woodward, and Page Woodcock. The retiring President, Mr. W. Lane, occupied the chair at the commencement. The following officers were appointed for 1919: *President*, Mr. J. Keall, Wandsworth. *Vice-Presidents*: Manufacturers' Section, Mr. Page Woodcock; Wholesale Section, Mr. F. J. Smith (Sangers); Retail Section, Mr. P. F. Rowsell, Exeter. The following, in addition to the above officers, were appointed members of the *Executive Committee*: Manufacturers, Messrs. S. Kutnow and A. Ridout; Wholesalers, Messrs. A. T. Webb (May, Roberts & Co., Ltd.) and J. McCaig (Evans Sons Lescher & Webb, Liverpool); Retailers, Messrs. J. G. Atkinson and A. R. Keith; together with the retiring President. Mr. G. R. Barclay was re-appointed *Treasurer*. A vote of thanks to the retiring President was passed. It was intimated that since the last meeting of the Council nineteen more pharmacists' associations and four more wholesalers had agreed to take action in the Elliman matter as recommended by the Council. Several new firms were admitted to membership of the Manufacturers' Section. A large number of applications to alter prices were passed, and one application to add a well-known proprietary to the protected list was refused on the ground that it did not show an adequate profit to either retailer or wholesaler.

MR. LESLIE GATES, bottle-capping skin manufacturer, has removed his factory and offices to Hailsham, Sussex.

NEW CHEMICAL SYNDICATE.—A syndicate has been formed in Helsingfors for the manufacture in Finland of acids and other chemical products. One of the manufactures will be saccharin, the production of which will cover the demands of the country from the beginning of next year. Germans interested in the venture have placed their scientific and technical experience at the syndicate's disposal.

Chemists' Defence Association.

A meeting of the directors of the Chemists' Defence Association was held at the Holborn Restaurant, London, W.C., on January 9. There were present Messrs. J. G. Atkinson, R. Feaver Clarke, W. L. Currie, John Keall, G. J. Knight, S. N. Pickard, and P. F. Rowsell. Mr. Rowsell was re-appointed *Chairman*, Mr. Keall *Vice-Chairman*, and Mr. W. Johnston *Secretary* for the ensuing year. A number of shares were allotted and transferred to new members. Several claims were considered, and the payment of 20% was sanctioned in respect to one of these in which it was alleged that permanganate of potash solution had been supplied of too great a strength. The patient alleged that he had used it as a gargle and nasal douche, and that it had occasioned much suffering and inconvenience.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," January 1, 1919.)

- "DIPDUSTOL BRAND MEDICATED SPRAYING COMPOSITION"; for a local drug-spraying composition (3). By A. Herning, 120 Harrow Road, Leytonstone, E. 11. 384,131.
- "SUPREMACY" with device, including two naval officers' heads: for medicinal chemicals (3). By H. Miller, 389 High Street, Cheltenham. 386,240.
- "SANIDOWN"; for sanitary towels (11). By J. D. Williams, 53 Dale Street, Manchester. 385,337.
- "MILCOTE FOOD," etc., with heraldic device over word "Cardiff" ("Milcote" disclaimed); for a food (42). By C. Carey Thomas & Son, 46-48 Bute Street, Cardiff. 380,507. (Associated.)
- "VINAURA"; for essences, etc. (42). By Consol Automatic Aerators (1914), Ltd., Sunbury Common, Middlesex. 380,515.
- "TRUQUAL"; for all goods (48). By The Truqual Chemists Pure Supplies Association, Ltd., 16-22 Rodney Street, Wigan. 383,364. (Associated.)
- "REJUVENESCO"; for perfumery, etc. (48). By Shadforth Prescription Service, Ltd., Mitre Works, Cordova Road, London, E. 3. 384,294.
- "VELVETOLA" and "VELVETONE"; for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 384,918/920.
- "LOUISE AGNESE COMPLEXION MUD," etc., with portrait of applicant: for cosmetics (48). By L. Agnese, 17 Fleetwood Street, Belfast. 385,371.
- "NIORÉ"; for cosmetics (48). By G. Steven, 118 Chorlton Road, Manchester. 385,457.
- "MILCOLENE"; for skin lotion and cream (48). By Silk's Toilet Co., 8 and 9 Red Lion Street, W.C. 1. 385,875.
- "EUPHYNOL"; for perfumery and dental preparations (48). By Goddard & Coke, 49 Lamb's Conduit Street, W.C. 1. 386,199.
- "BRITISH EAU DE COLOGNE DE LUXE A.D. 1914-18" on label device ("de Luxe" disclaimed); for Eau de Cologne (48). By C. V. Johnson & Co., 38 Great Ormond Street, W.C. 1. 386,299. (Associated.)

(From "The Trade-marks Journal," January 8, 1919.)

- "SECURIAM"; for chemicals (1). By Securiam, Ltd., Alderman's Walk, Bishopsgate, E.C. 2. 385,063.
- "RYMOS"; for chemicals (1). By N. Gray, 7 Queen's Square, Belfast. 385,268.
- "PIOMBITE" and device; for chemicals (1) and for goods (4). By J. Nelson & Co., 86 St. Vincent Street, Glasgow. 385,999/000. (Associated.)
- Irish emblematic device with words "Manufactured in Drogheda" and "Cens Prasilidum Mercatura Decus"; for chemicals (2). By A. Healy, 81 West Street, Drogheda. 384,191. (Associated.)
- "FHYLLAN-BURGI" ("Bürgi" disclaimed); for all goods (3). By Chlorosan Aotien Gesellschaft Chemische-Therapeutische Präparate, 945 Zofingen, Switzerland. 381,965.
- "QUINILYPTUS"; for medicinal chemicals (3). By The Standard Tablet Co., Ltd., Hove. 385,856.
- "MANALBINE BRAND CREAM"; for a medicated cream (3). By W. J. Kearney, Station Buildings, Hawick. 386,038.
- "BILTRUSTO"; for surgical appliances (11). By T. Sherborne, 33 Honor Oak Park, S.E. 25. 386,243.
- "T.E.T." device on oval; for food-substances (42). By T. E. Taylor, Ltd., 2 Princoess Road, Lostock, Bolton. 384,903.
- "NULO"; for cane-sugar products (42). By The Nulomoline Co., 111 Wall Street, Manhattan, U.S.A. 386,111.
- "BUCKLE" under picture of same; for goods (47) and for perfumery, etc. (48). By Hazlehurst & Sons, Ltd., 17 Highfield Street, Liverpool. 385,954/5. (Associated.)
- "DORCAS"; for perfumery, etc. (48). By F. S. Cleaver & Sons, Ltd., Gould Road, Twickenham. 385,928.
- "LALITHYNGI" and "SATHARAM"; for perfumery, etc. (48). By H. Rigand, 8 Rue Vivienne, Paris. 386,194/5.
- "PAM-PAM"; for perfumery, etc. (48) and for boxes, etc. (50). By S. S. Booty, Ennerdale, Cedars Road, Sutton. 386,327/8. (Associated.)

Marriage.

BAKER—BOWMAN.—At St. Michael's Church, Headingly, Leeds, on January 9. Captain Joseph Baker, Tank Corps, younger son of Mr. B. Baker, Kettering, to Muriel, elder daughter of Mr. Powell Bowman (proprietor of Goodall, Backhouse & Co.).

Deaths.

ALEXANDER.—Suddenly, at Leith, on January 9, Mr. William Greig Alexander, chemist and druggist, aged seventy-five. Mr. Alexander was in business before 1868.

BILLINGTON.—At 210 Edge Lane, Liverpool, on January 12, Mr. Frederic Billington, chemist, aged eighty years, late of Wavertree Road. He was interred at West Derby Cemetery, Liverpool, on January 16. One of the old school of pharmacists and highly esteemed, Mr. Billington retired many years ago. In his days of activity he was a valued member of the Liverpool Chemists' Association.

DAVIES.—Recently, Mr. Frank Henry Davies, chemist and druggist, 13 Brigstock Road, Thornton Heath, Croydon, aged sixty-seven. He had carried on business there for about forty years.

HAINES.—At Queen Street, Great Harwood, last week, Mrs. Haines, wife of W. H. Haines (W. H. Haines, Ltd.), aged sixty-four.

HOWES.—At the Poplars, Ketley, on January 8, Mr. Henry Howes, chemist, aged seventy-five. Mr. Howes was formerly in business at 238 Bristol Street, Birmingham, the premises being now used as a municipal kitchen. Mr. Howes was many years ago an assistant in the City, and contemporary with Mr. W. B. Featherstone and Mr. John Platts.

JONES.—At Long Bridge Street, Llanidloes, on December 29, Mr. John Kinsey Jones, chemist and druggist, aged fifty-eight.

McCULLY.—At Londonderry, last week, from influenza, Mr. Frederick William McCully, registered druggist.

NICHOLS.—At 39 Undercliffe Road, Lewisham, on December 27, Mr. Wm. Hartley Nichols, aged fifty-six.

TREWEEDS.—At Main Street, Pembroke, on December 31, Mr. R. Harwood Treweeds, chemist and druggist, aged sixty-four.

WALKER.—At 77 Union Street Terrace, York, on January 9, suddenly, Mr. Wm. Grayston Walker, chemist and druggist, aged fifty-eight. He served his apprenticeship at York with Messrs. Brown, High Ousegate, and was for some years in business for himself at Burnley.

Died on Service.

CAIRNIE.—Second-Lieutenant D. D. Cairnie, M.C., 5th Seaforths, who was reported missing on March 21, now concluded to have been killed. He was second son of the late Mr. D. D. Cairnie, chemist, Thurso. Prior to enlisting he was in business as a chemist in Brora.

FLOYD.—At Salonica, on January 5, Acting-Sergeant F. J. Floyd, R.A.M.C., chemist and druggist, son of Mr. J. A. Floyd (representative of Southall Bros. & Barclay, Ltd.), Bury St. Edmunds. Sergeant Floyd was apprenticed with Nunn, Hinnell & Clark, Bury St. Edmunds, qualifying in 1914. Joining the R.A.M.C. early in 1916, he was drafted in May 1917 to Salonica, where he served continuously until his death, which was the result of an attack of bronchopneumonia.

Personalities.

MR. F. CLARK, chemist and druggist, High Street, Winsford (Cheshire), is retiring from business.

DR. J. C. THRESH, Ph.C., has resigned his appointment as medical officer of health for Essex.

MR. C. M. WARNER, chemist and druggist, has been appointed a captain of the Wolverhampton Cadets.

MR. CHARLES A. CRITCHLEY, Ph.C., King William Street, Blackburn, has been adopted as a candidate in St. John's Ward.

MR. W. M. WOODHOUSE, chemist and druggist, of Bull Ring, Ludlow, has been appointed organist of the Masonic Lodge of The Marshes.

MR. REES BARRETT, chemist, Clevedon, Somerset, was installed as Worshipful Master of the Coleridge Masonic Lodge, Clevedon, No. 1750, on January 8.

MR. MATTHEW HERROD, chemist and druggist, Norfolk Street, Wisbech, has been appointed a magistrate for the borough. Mr. Herrod, J.P., is a member of the Town Council.

DR. EDWARD FRANKLAND ARMSTRONG, who has been placed on the Commission of the Peace, is a director of Joseph Crosfield & Sons, Ltd., soap and chemical manufacturers, Warrington.

THE Army rank of the late Mr. W. Gilbert Saunders (C. & D., January 4, p. 48) should have been given as Captain and Adjutant. He was also a Fellow of the Institute of Chemistry.

MR. A. BIRD, M.P. for West Wolverhampton, was congratulated by the Wolverhampton chemists, and a letter to that effect was sent by the Secretary of the local Association, of which Mr. Bird is a member.

THE O.B.E. has been conferred on Lieutenant-Colonel H. N. Brinson, D.S.O. Colonel Brinson is the eldest son of Mr. George Brinson, the North Wales representative of Evans Sons Lescher & Webb, Ltd.

MR. H. LEE, chemist and druggist, until recently head of the drug department of Hedges, Ltd., Birmingham, has been appointed manager to Maurice Smith & Co., Ltd., manufacturing chemists, Kidderminster.

THE Mayor of Bury St. Edmunds, Alderman Owen A. Clark, M.B.E., chemist and druggist, was at the fifteenth annual meeting of Bury St. Edmunds and West Suffolk Commercial Travellers' Association elected its President.

MR. P. H. WOODNOH has now been demobilised from the Royal Naval Volunteer Reserve, and has rejoined his partner, Mr. G. S. V. Wills, Ph.C., at the Westminster College of Pharmacy, 190 Clapham Road, London, S.W. 9.

At the final examination of the Institute of Chartered Accountants, recently held in London, Mr. Edward E. de Carle Smith, younger son of Mr. J. de Carle Smith, chemist, Norwich, was placed second in order of merit, and was awarded the Quilter Prize for the best paper on auditing.

COUNCILLOR F. A. WILCOCK, chemist and druggist, Victoria Street, has been re-elected Chairman of the Park and Baths Committee, and Councillor J. H. Coleman, chemist and druggist, Worcester Street, has been re-elected Chairman of the Technical Committee of the Wolverhampton Town Council.

MR. W. F. J. WOOD, B.Sc., of Ardsley House, near Barnsley, who is among the recipients of the C.B.E. decoration, is the head of Wood Bros. & Co., glass manufacturers, Barnsley. As President of the Society of Glass Technology he has rendered valuable service in promoting the manufacture in this country of chemical and optical glass previously obtained from Germany.

MR. A. GIMENEZ, of Gimenez-Salinas & Co., 9 Rua Nova Da Trindade, Lisbon, is on his way to this country to arrange for additional agencies for British houses. He speaks English fluently, having lived for some years in this country. The London house is Mitchell, Genge & Gimenez, Peninsular House, 28 Monument Street, London, E.C., where letters for Mr. Gimenez should be sent.

SECOND-LIEUTENANT G. LESLIE TODD (West Yorks), son of Mrs. Todd, Brunswick House, West Park, Harrogate, has been awarded the Military Cross for gallantry on the field. He was an apprentice with Taylor's Drug Co., Ltd., at the branch at Station Parade, Harrogate, joined up two days after war was declared, and went to France in April 1915. Prior to receiving his commission he was Acting Sergeant-Major. In June 1916 he was wounded, and received his commission in October 1917.

WE gather from the "Pharmaceutical Journal" that Mr. E. White, Ph.C., ex-President of the Pharmaceutical Society, is now on his way to the thorium fields of Ceylon. We trust that he will have a safe journey, and that his mission will be successful. He is due in May for re-election on the Council of the Pharmaceutical Society, but so far as we can calculate it looks as though he will not be able to fulfil the by-law conditions attaching to Council candidates. It seems, therefore, that his membership of the Council will lapse through the accident of his business journey.

THE NEW COALITION MINISTRY, which was completed last week, retains Sir Albert Stanley as President of the Board of Trade. Dr. C. Addison is moved to the office of President of the Local Government Board. Mr. Herbert Fisher remains at the Board of Education. The Ministry of Reconstruction has been changed into the Ministry of National Service and Reconstruction, Sir Auckland Geddes being the Minister in charge. Sir Richard Winfrey has not been reappointed as a Parliamentary Secretary to the Board of Agriculture. Sir Alfred Mond remains First Commissioner of Works, while Sir L. Worthington Evans becomes Minister of Pensions.

The Air-raids on London.

GERMAN methods of warfare have been characterised throughout by a disregard of the usages recognised as legitimate by civilised nations. The list of crimes which Germans have to answer for is appalling. One of the Hun methods consisted in attacking unfortified towns and undefended cities by means of bombs dropped from aircraft. London was subjected to twenty-five raids by German airships and aeroplanes. We have not hitherto been able to publish particulars of the localities affected or the damage which was done, but the restrictions having been relaxed, we can now disclose these facts, taken from the official reports issued by Lieut.-Comdr. S. Sampson Sladen, R.N., who was just retired from the chief officership of the London Fire Brigade.

The first air-raid on London was on *May 31, 1915*. It occurred at 11.7 P.M., but neither in this raid nor in that of *September 7, 1915*, was any damage done to premises connected with the drug-trade.

In raid No. 3, which took place on *September 8, 1915*, an explosive bomb was dropped in Farringdon Road, E.C., at 10.50 P.M., close to the premises of Boots Cash Chemists (Southern), Ltd., 29-31 Farringdon Road, where the coping-stone and window-glass were damaged by breakage. At 33 Farringdon Road, the premises of the Anglo-American Drug Co. were affected, the fourth floor and the contents being slightly damaged by explosion and fire, and the door and window-glass by breakage. At 35-37 Farringdon Road, the premises of A. J. White, Ltd., patent-medicine manufacturers, also suffered, the roof, skylight, and window-glass being damaged by breakage. At 39 Farringdon Road, the window-glass of the premises of Menley & James, Ltd., was damaged by breakage; and the same remark applies to 41 Farringdon Road, the premises of S. Kutnow & Co., Ltd., manufacturing chemists. At 57 Farringdon Road, the premises of Boots Cash Chemists (Southern), Ltd., were also affected, the basement and the contents being slightly damaged by water, and the window-glass and pavement lights by breakage. The premises of G. B. Kent & Sons, Ltd., brushmakers, at 75 Farringdon Road, had the window-glass broken. An incendiary bomb, which was dropped at 10.51 P.M., resulted in the broken window-glass at the drug-stores of Mr. M. Brodie, 49 Theobalds Road, W.C. An incendiary bomb, which was dropped at 11.4 P.M. in Bartholomew Close, caused very serious damage at 23A in that thoroughfare to the premises of J. Houghton & Sons, drysalters and wholesale druggists. A building of four floors, about 70 ft. by 35 ft., used as a store, and the contents were seriously damaged by fire, heat, smoke, and water, and a part of the roof was destroyed. The same bomb did damage at 27 Bartholomew Close, the premises of the same firm. Great damage was also caused by the same bomb at 60 Bartholomew Close, to the very extensive premises of Evans Sons Lescher & Webb, Ltd. Here a large range of buildings, one of seven floors, covering an area of about 200 ft. by 150 ft. and used by the firm as manufactory, offices, and stores, had the entire front severely damaged by the tremendous effects of the explosion. One remarkable feature of it was that the building presented the appearance of having been pushed back some half a dozen feet, while the whole of the inside of the building was exposed to view. A little further away, at 63 Bartholomew Close, the force of the explosion shattered the glass in all the windows of the lofty warehouse tenanted by Mr. W. Neumann, essential-oil merchant. The premises at 5 Westmoreland Buildings, Bartholomew Close, occupied by Spurway & Co., perfumers, were also damaged. Not far away, practically every window-pane was shattered in the extensive warehouses 22 and 23 Charterhouse Square, Little Britain, West Smithfield, occupied by F. Newbery & Sons, Ltd., druggists' sundriesmen.

In raid No. 4, which occurred at 9.27 P.M. on *October 14, 1915*, and caused great damage in Central London, not a single set of trade premises was damaged; while raid No. 5, which occurred at 1.38 A.M. on *August 25, 1916*, did great damage to house property in the S.E. district, but did not affect drug-business premises. In raid No. 6, which occurred on *September 24, 1916*, an explosive bomb, which fell at 12.44 A.M. in Streatham High Road, caused serious damage at Nos. 296 and 298, to the premises of Messrs. Goddens, chemists, where shops and houses of eighteen rooms each and the contents were practically wrecked and severely damaged by the bombs dropped by a Zeppelin. No damage was caused to trade premises in raid No. 7, which occurred in daylight on *November 28, 1916*, between eleven o'clock and noon, when a single raider

flew across the West End and dropped six bombs. The same remark applies to raid No. 8, which occurred at 12.49 A.M. on *May 7, 1917*, at midnight, when one got through. In raid No. 9, which occurred on *June 11, 1917*, at 11.36 A.M.—a daylight raid—an explosive bomb was dropped at 11.46 A.M. in Maiden Lane, City, and No. 1 the premises of R. W. Greeff & Co., wholesale chemists, sustained damage to the roof and window-glass. By a bomb which was dropped in Central Street, Finsbury, the drug-stores of Mr. E. Lowe, 47 Central Street, Finsbury, sustained damage, the window-glass being shattered. At 83-85 Curtain Road, Shoreditch, the premises of Mr. E. Howlett, wholesale druggist, were also affected, the window-glass of the warehouse being shattered.

Raid No. 10, which occurred in daylight on Saturday, *July 7, 1917*, caused great damage, particularly in the City. Between twenty and thirty Gothas flew over the City leisurely and unattacked, coming from the north-east of the Metropolis, and circling round the City dropped bombs which were nearly all of an explosive character. Some of the trade premises which had felt the effects of the previous raids again sustained damage, and the Fire Brigade had a heavy strain put upon them in dealing with the fires which followed the dropping of the bombs. One of the first of these was dropped at 10.36 A.M. at 27 Bartholomew Close, City, upon the premises of J. Houghton & Sons. It is believed that two explosive bombs dropped simultaneously on these premises. The place was practically wrecked, and a disastrous fire immediately followed. The official report summarises the damage as follows: "A building of three, five, and six floors, about 90 ft. by 60 ft., used as manufactory, office, and store, and the contents, severely damaged by explosion and fire and fallen down. One male killed, three males and one female injured. Several persons reported missing." At the same moment an explosive bomb was dropped at 60 Bartholomew Close, upon the premises of Evans Sons Lescher & Webb, Ltd., wholesale druggists, and here again serious damage was caused, the official summary being in the following terms: "A range of buildings of one, four, and seven floors, covering an area of about 200 ft. by 150 ft. (used as manufactory, offices, and stores): front damaged by explosion and fire; rest of building slightly damaged by water and breakage." At the same time an explosive bomb was dropped at 1 and 2 Cox's Court, Little Britain, E.C., on premises occupied by A. Leonard & Co., medicated-wadding manufacturers, and two other firms. The report states: "A range of buildings of four and five floors, covering an area of about 120 ft. by 35 ft. (used as showrooms, workrooms, offices, and stores), and the contents, severely damaged by explosion and fire and the roofs off. One male and four females injured and taken to a hospital. One male since dead." As the results of another bomb, which was dropped simultaneously at St. Martin's-le-Grand, striking the corner of the General Post Office, the window-glass was shattered of the pharmacy of Cassie & Co., chemists, 49 Newgate Street, E.C. Another bomb, which was dropped at 15 Albion Buildings, Bartholomew Close, caused damage to the premises, at 16, of G. Higgins & Co., druggists' sundriesmen; and one, falling on 6 Falcon Street, Aldersgate Street, City, shattered the windows on the premises of E. Garrod & Co., druggists' sundriesmen, at 3 Falcon Street. Another bomb, which was dropped on premises at 75 and 76 Little Britain, Aldersgate Street, shattered all the windows at the premises occupied by S. Maw, Son & Sons, Ltd., at 12 Little Britain. One which fell at 89 Upper Thames Street, on the City of London Brewery, shattered all the glass at the premises of Mr. T. Dene, isinglass importer, Old Swan Lane, Upper Thames Street. By a bomb which dropped in St. Thomas's Street, Southwark, the medical school was affected, and the window-glass of a back building 150 ft. by 60 ft. was shattered.

In raid No. 11, which occurred on *September 4, 1917*, at 11.53 P.M., one of the first bombs dropped in Castle Street East, W., on a big drapery establishment, and shattered all the window-glass in the premises of Foster McClellan, manufacturing chemists, 8 Wells Street, Oxford Street. A little while afterwards a bomb, dropped at Agar Street, Strand, damaged the front part of the Charing Cross Hospital Medical School. By an explosive bomb which dropped at Wellesley Road, Camden Town, the window-glass was shattered of the premises of Mr. J. H. S. Allen, chemist, 137 Queen's Crescent. Another bomb dropped in Tichborne Street, Edgware Road, and broke the windows of Mr. C. J. Miles, chemist.

In raid No. 12, which occurred on *September 24, 1917*, at 9.8 P.M., a bomb which was dropped shattered the window-glass of the premises of Mr. W. Jones, chemist, 134 Southampton Row, and also shattered the window-glass at Boutalls, Ltd., 150 Russell Mansions, Southampton Row.

Damage was also caused by the same bomb to the front part of the buildings and its contents at 114 and 116 Russell Square Mansions, Southampton Row, tenanted by S. R. Van Duzer & Son. By a bomb dropped in Garrett Street, Finsbury, the window-glass of the premises occupied by British Alkaloids, Ltd., 86 Banner Street, Finsbury, was shattered, and the door and window glass of the premises occupied by British Salicylates, Ltd., 90 Banner Street, were damaged by breakage. At 104-106 Golden Lane, Finsbury, the window-glass of the premises occupied by J. Timpson & Co., Ltd., medical-plaster makers, was broken.

Raid No. 13 took place at 7.57 P.M. on September 25, 1917. No damage was done to trade premises. In raid No. 14, which occurred on September 29, 1917, at 9.25 P.M., damage by anti-aircraft shell was caused to the roof of the premises of the Manbré Saccharin Co., Brandenburg Road, Hammer-smith. In raid No. 15, which occurred on September 30, 1917, at 6.9 P.M., the window-glass was broken at 75 Chrip Street, Poplar, tenanted by Boots Cash Chemists, Ltd. As the result of an explosive bomb dropped at 21 George Street, Woolwich, damage was caused to the premises of J. Neale & Co., Ltd., chemists. In raid No. 16, which occurred on October 1, 1917, at 8.10 P.M., no damage was caused to trade premises; the same remark applies to raid No. 17, which took place on October 19, 1917, at 11.34 P.M.

In raid No. 18, which took place on November 1, 1917, at 12.51 A.M., the premises of Mr. L. E. Salter, chemist, 7 The Broadway, Norwood Road, sustained damage from an anti-aircraft shell. In raid No. 19, which occurred on December 6, 1917, at 4.35 A.M., an incendiary bomb dropped at 146 Holborn, City, resulted in the shop and contents of Lewis & Burrows, Ltd., being slightly damaged by fire, heat, smoke, and water. In the same raid an incendiary bomb was dropped at 393 Commercial Road, E., on the premises of Mr. A. T. Styles, chemist. The back rooms on the first and second floors were damaged by fire and the roof burnt.

In raid No. 20, which occurred on December 18, 1917, at 7.10 P.M., damage was caused by two explosive bombs which fell at 1 Southwark Park Road, S.E., on the premises of J. & E. Atkinson, Ltd., perfumers. A range of buildings, of one, two, and five floors, covering an area of about 200 ft. by 100 ft., used as workshops, offices, and stores, and the contents, were seriously damaged as a result of the explosion and by breakage. In raid No. 21, which occurred on January 28, 1918, at 8.53 P.M., damage was caused at 95 Wandsworth Road to the premises of Synthetics, Ltd., by an explosive bomb, a building of two and three floors, about 75 ft. by 15 ft., used as factory, office, and stores, being damaged. In raid No. 22, which occurred on February 16, 1918, at 10.58 P.M., no damage was done to trade premises; nor was any damage caused by raid 23, which occurred on February 17, 1918, at 10.58 P.M.

In raid 24, which occurred on March 7, 1918, at 11.55 P.M., an explosive bomb which fell at 30 Webb's Road, Battersea, damaged the premises of Mr. J. Cammack, chemist, where the shop and premises of eight rooms was damaged. The last raid occurred on Whit-Sunday, May 19, 1918, at 11.49 P.M., and caused considerable damage to the premises of Allen & Hanburys, Ltd., wholesale druggists, at 1 Letchford Buildings, Three Colts Lane, Bethnal Green, where two explosive bombs dropped at 11.51 P.M. The official report states: "A range of buildings of one, two, and three floors, covering an area of 300 ft. by 100 ft., used as laboratory, boiler-house, packing-rooms, offices, and stores: about one-third of the contents severely damaged by the explosion and fire, and the roof destroyed; rest of the ditto severely damaged by heat, smoke, water, and breakage; and a range of buildings of three floors, about 350 ft. by 50 ft., used as offices, stationery stores, repair shop, and dwellings, and the contents, slightly damaged by heat, smoke, water, and breakage, adjoining and communicating."

Owing to the perfection which was reached in defensive measures the visits of the Hun air-raiders brought such disastrous results to the raiders that their ardour for this class of "frightfulness" cooled down. Then on November 11 the Allies granted an armistice to the Germans and normal peace and quietness were assured to London and the other districts of Great Britain which had been subjected to this class of German "warfare." The reprisals of the Allied air-forces on German towns probably contributed to bring the Huns to their senses.

BOILED LINSEED OIL makes a good floor-stain. The surface should be sandpapered and the oil applied about four times. Subsequent polishing with beeswax and turpentine is an improvement

Trade Notes.

FLUZO POWDERS, for headache and neuralgia, are a speciality of A. S. Price & Co., Ltd., Blackheath, Birmingham.

CAMILATONE SHAMPOOS.—The Camomile Tonic Co., 16 Lichfield Road, Cricklewood, London, N.W. 2, make the Camilatone shampoos, which owe part of their tonic properties to camomiles.

MAGNETUM LINIMENT is a new product of the Ni-Verre Chemical Co., 5 to 7 Ormeau Avenue, Belfast. It is of the American type, with capsicum and essential oils, and is put up in 4-oz. bottles with cartons in red and blue.

BIDWELL'S TOOTH-BRUSHES.—The silver-drawn tooth-brushes made by Bidwells, Ltd., Axminster, Devon (London offices: Bush Lane House, Cannon Street, E.C. 4), are now stamped "Gloria Silverdrawn," this being a registered title.

CALENDARS.—The scented card calendars for 1919 which are being distributed by Price's Patent Candle Co., Ltd., Battersea, London, S.W. 11, are perfumed with white clover, the perfume which is used in the Court bouquet toilet-soap series.

CREAM EMBROCATION.—F. Newbery & Sons, Ltd., druggists' sundriesmen, 27 and 28 Charterhouse Square, London, E.C. 1, send us a sample of Newbery's Cream Embrocation, which is adapted for use in the treatment of rheumatism, lumbago, sciatica, and sprains. The liniment, which is terebinthinous, is a perfect emulsion, and is neatly packed.

INFLUENZA-MASK.—John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E., advertise in this issue the Arellano influenza-mask. The mask, which is figured in the announcement, is the invention of Comte de Ramirez de Arellano. It is designed to prevent aerial infection of disease, and is worn as a precaution by persons exposed to risk of infection.

"STANDARD" RETAIL-PRICE LIST.—The January issue of this list, which is produced by Mr. Chas. Philip, chemist, 23 High Street, Herne Bay, is in a green cover. The list is as full as ever, and embodies many alterations in prices. A percentage table is reproduced which was originally printed in the "Chemists' Pricing Guides," and from the same publication is printed a further instalment of the dispensing pricing tables.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

17/66. Strand Chemical Co.'s products	22/56. Kelland's diabetes whiskey
17/44. "Mona" bouquet (Rivière et Cie.)	21/43. "Tofan" (tuberculosis remedy)
19/63. "Snorodyne"	21/32. Johnstone's ether soap
20/58. Alizarin red (S)	

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4:

Hearing apparatus, 3/62	Sieves (fine wire), 239/24 and 234/68
Holloway's arnica plasters, 1/52	Silver leaf, 231/51
Horn's trusses, 247/64 and 259/69	Sodium sulphate exsiccated, 255/16
Houbigant's perfumery, 257/60	Soule's (Dr.) hop bitters, 228/28
Hygientol, 2/14	Sprays for perfuming theatres, etc., 234/34
Inglewin, 252/1	Stainton's petroleum compound, 231/35
"Ivy" corn-silk, 6/54	Steedman's powders, 12/50
Metol, 246/44	Storaxol, 244/55
Mixing machines, 2/17	"Synol" soap, 22/40
Murray's gout specific, 252/101	Tablet-counting machines, 219/15
"New Skin," 231/69 and 239/12	Tamar Indien (Grillon), 234/60
Newton Mason's cough linctus, 4/12	Tartaric acid cryst, 14/60
Nucleatol (Robin), 239/11	Tatcho, 238/22
Petronol, 248/55	Teasdale's chlorodyne, 240/70
Phosphogen, 251/23	Thermofuge, 1/51
Pill-making machinery, 232/1	"Thistle" throat spray, 244/56
"Pink Heel" ointment, 222/3	"Thyroidectin" capsules, 222/63
Polyglandin tablets, 243/23	Tin ointment-boxes, 253/30
Process blocks, 248/8	Vacuum flasks and refills, 249/26 and 249/26
"Ronuk" floor-polish, 226/60	Valda pastilles, 235/4
St. Jacob's oil, 12/50	Valentine's meat-juice, 231/35
Sanford's rat-poison, 7/38	Valex, 246/53
Saponine, 14/65	
Scarlet red medicinal, 234/57	
Secotine, 4/38	
Selyv cloths, 219/26	
"Sen-Sen," 234/34	
Shaving-soap, 234/34	

Observations and Reflections

By Xrayser II.

The Pharmaceutical Council Progresses.

It has discovered that there is a certain waste of time in first considering questions in the General Purposes Committee (which comprises the whole Council) and reconsidering them the next day in the Council itself, sitting as such. This reminds one of the leading case of Ossawatomie Brown, who was imprisoned for ten years in a room, when a lucky thought struck him—he opened the window and got out. It is interesting to watch the dawn of intelligence in anybody, especially where one has begun to despair of it, but we must not get excited over this new development until we see more clearly what it portends. Does it mean the abandonment or serious modification of the old policy of secrecy? I referred the other week to a rumour that this was impending. The new arrangement under which the departmental Committees will in future report to the Council in time to allow of their being read and studied is in any case so sound as to encourage the hope that the Council is really waking up at last. Some of us may live to see it become a businesslike body yet.

The Principle of Co-optation Excepted,

there is nothing to be said against the Council's choice of Mr. Melhuish to fill the place vacated by Mr. Harrington. Mr. Melhuish is a good man, of comparatively conservative—or shall I say colourless?—opinions, who stood next after Mr. Kirkpatrick, now, alas! no longer with us, and he is therefore as obviously marked out for this honour as anybody could be, but no case of co-optation to an ostensibly representative body should be allowed to pass without a formal protest against the principle. The original and strictly proper meaning of co-optation is "to choose as a colleague, friend, or member of one's tribe or family." This is very right as extended to a college, a council of nobles, or a body of braves, but it is contradictory of the democratic principle that people should elect their own representatives.

The Discussion of the New By-Laws

at the Special General Meeting showed a good deal of dissatisfaction with them, and it cannot be said that all the objections advanced were convincingly answered. There is a case for not granting certificates for passes in the first half of the Qualifying examination, but it is not a strong one, and the certificates might easily be so worded as to be useless as advertisements. Authentication can always be obtained, says the Secretary; possibly, but it ought not to be necessary to apply for it; when a man has passed he has passed, and he has a right to an acknowledgment of the fact. It is still clearer that re-examination in a subject in which the candidate has failed ought not to depend on the discretion of the examiners. It is no answer to say that this would lead to the taking of the subjects singly, since it is a condition of re-examination that the candidate shall already have passed in every subject but one. And suppose he has but "scraped through" the others? A good many who pass them all at once probably only just scrape through. Mr. Higgs complimented the President on his conduct of the meeting. Exception must, however, be taken to his undignified and absurd retort on those who have criticised the raising of the examination fees; even a *tu quoque* ought to have some sort of relevance, but this had none.

Mr. Body's Reorganisation Scheme

is implicitly condemned as impracticable by the requirement of its first clause that the Pharmaceutical Society shall completely absorb all local associations and committees, for upon this the whole depends. But this implies that all panel chemists shall be members of the Society. Mr. Body does not indeed say so, but if membership of local associations is to depend upon membership of the Society, as his scheme requires, then manifestly the chemists represented by the Pharma-

ceutical Committees must in fairness submit to the same condition. This, however, the Society cannot enforce, nor can the Committees. The scheme, in fact, could only be brought into force by an Act of Parliament, and that in the present temper of the craft is past praying for.

The Pharmacy Workers' Union

has put forth, as you say, an ambitious programme, but it is an incomplete one, and one that in my opinion lacks the most essential feature. I see that the word "assistant" does not occur in it, but it will include the chemists' assistant with whom we are familiar, and its first object should be to obtain for assistants a statutory right to the title by admission to an assistants' examination. "Chemists' Assistant" is a title which at present anybody may assume; it means nothing, and conveys no rights. It is a very poor basis on which to found a Union, and before it can be made a sound one the term "assistant" as applied to pharmacy must be defined and safeguarded. I suggest that a tenth article should be added to the programme: "To persuade the Pharmaceutical Society to establish an Assistants' Examination, in accordance with the Charter of the Society and the Pharmacy Act of 1852."

I Have Thought

as hard as I can, and still adhere to the opinion that Part I. of the Qualifying examination should remain as it is. The subjects included in it are those that can be most conveniently and efficiently entered upon in the continuation schools. They are the natural and necessary preludes to intelligent practical work, and they cannot be taken later without interfering more seriously with shop duties. I do not believe that the amount of scientific study required for the examination will in any normally constituted mind have the effect "Jay Mack" fears of creating a distaste for the retail counter; nor—granting the possibility of this in some cases—do I see why it should occur more frequently in the earlier than in the later stage of training.

The Two Editions

of Gerard's "Herball" about which "Secundo Curo" inquires differ greatly in actual value, whatever the case may be as regards their money value. Johnson's is much the better of the two. Gerard was, to say truth, a bit of a fraud. The greater part of his book consists of a translation by Dr. Priest of the "Pemptades" of Dodoens, the Dutch botanist. Priest did not live to finish the work; after his death Gerard adopted his fragment without acknowledgment, completed it, with additions from his own "observations" (which include the absurd Goose-tree), and to disguise his theft altered the arrangement from that of Dodoens to that of Lobel. Worse than that, he declared in his introduction that Priest's work, of which he admitted that he had "heard," had perished. The Goose-tree above mentioned shows Gerard in a rather dubious light as an observer, and his book is full of blunders and mis-statements which Johnson corrects. He also largely supplements many of the articles, and adds many more new ones, increasing the total number of plants described to 2,850, and marking his corrections with an obelisk, his additions with a double obelisk. He also greatly improves the arrangement, and the illustrations, which latter he took from Plantin. He omits the Goose-tree, but leaves enough of Gerard's text untouched to retain that quaint flavour which is perhaps the secret of his popularity.

TEATS FOR GERMAN BABIES.—It is stated that the Foreign Office has given permission for the export to Germany of one million india-rubber teats. The Germans allege that they can make large quantities of synthetic rubber better than the natural product, and this should surely have been used for the manufacture of teats if they are so badly wanted.

ASPIRIN TABLETS OF TALCUM POWDER.—Joseph M. G. Kakay, President of the Verandah Chemical Co., with a plant in Verandah Place, Brooklyn, has been arrested on the charge of manufacturing and selling aspirin tablets under a false and misleading label. Nearly 400,000 tablets were seized. Analysis has shown them to contain only talcum powder, cornstarch, and a little salicylic acid.

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An announcement of particular
interest to you appears in
this issue on page xi

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Editorial Articles.

Progress in Chemistry.

ALTHOUGH published last year, we have not had an opportunity before of referring to the annual reports on the progress of chemistry which are published by the Chemical Society and the Society of Chemical Industry. The "Annual Reports on the Progress of Chemistry for 1917" (Gurney & Jackson, 4s. 6d.), issued by the Chemical Society, is Volume XIV. of the series. It was issued comparatively late in 1918 owing to war conditions, and a diminution in the number of pages which the book usually occupies is due to the same cause. The volume is divided into chapters dealing with (1) General and Physical Chemistry by Dr. H. M. Dawson; (2) Inorganic Chemistry by Professor E. C. C. Baly; (3) Organic Chemistry—(a) aliphatic division by Dr. J. C. Irvine, (b) homocyclic division by Dr. F. L. Pyman, (c) heterocyclic division by Dr. A. W. Stewart; (4) Analytical Chemistry by Mr. C. Ainsworth Mitchell; (5) Physiological Chemistry by Dr. F. Gowland Hopkins; (6) Agricultural Chemistry and Vegetable Physiology by Dr. E. J. Russell; and (7) Crystallography and Mineralogy by Mr. T. V. Barker. In every one of these sections there are points of interest to pharmacists, but the chief advantage of the "Report" is the condensation into a narrative of the advances of the year under review. Volume II. for 1917 of the "Reports on the Progress of Applied Chemistry" (Harrison & Sons, 6s. 6d.), issued by the Society of Chemical Industry, extends to 536 pages against 535 pages in Volume I. The increased space occupied is due to the larger number of subjects dealt with. Dr. Pyman again reviews the progress in fine chemicals, medicinal substances, and essential oils, the chapter being

particularly interesting to pharmacists. Dr. Samuel Rideal deals this year with water purification and sanitation, and makes some useful remarks regarding the emulsified coal-tar disinfectants which have been employed in such large quantities by the War Office under the name "liquor cresoli saponatus fortis." Considering the difficulties of production in war-time the extended scope of the volume is very creditable to the producers. Of a different character from these two reports published by Chemical Societies, is Dr. A. W. Stewart's "Recent Advances in Organic Chemistry" (Longmans, Green & Co., 14s.) This is the third edition of a book first brought out in 1908, and appears to be a proof that the author intends to make his work a periodic survey of recent advances. Professor J. Norman Collie writes an introduction to the book, in which he regrets that so many books on organic chemistry are published from a similar standpoint. He agrees with the object Dr. Stewart has in view in stimulating thought by indicating paths along which pioneers of chemical science are likely to go in the immediate future. The opening chapter is a review of organic chemistry in the twentieth century, and of the succeeding chapters several are particularly interesting to those engaged in the drug-trade, e.g., those on alkaloids and aromatic derivatives of arsenic. As supplementary to general text-books on chemistry, the above-mentioned works are specially recommended.

Flouting the Members.

THE new by-laws relating to the Qualifying examination of the Pharmaceutical Society, which were approved and confirmed by the members at a special general meeting on January 8, are the most important which have been passed of recent years. The by-laws give power to make other regulations (practically by-laws) without the formality associated with altering by-laws. The power which the members have of objecting to by-laws at a general meeting has thus been taken away from the members with, it is only fair to add, their consent. As is well known, altered by-laws are required to be read and approved at three Council meetings before they are submitted to the members. The most noticeable point about the present occasion is that the President has never made any public explanation of the reasons for amending the by-laws or the effect of the alterations. Lest we should be accused of exaggeration we quote in full Mr. Currie's utterances from the official report of the proceedings in regard to the by-laws.

Council meeting, December 4.

The President moved that the report be received and the amended by-laws read a first time.

[The report referred to was that of the Parliamentary and General Purposes Committee, which contained the amended by-laws.]

Special Council meeting, December 18.

On the proposal of the President, seconded by the Vice-President, it was moved: "That the proposed new by-laws, read and approved a first time at the meeting of the Council on December 4, be now confirmed."

[The President answered three questions by Mr. Wolff as follows: (1) "Certainly." (2) "Nothing at all." (3) "Yes." And one by Miss Buchanan, "That will be a subject for regulation."]

Council meeting, January 8.

The President spoke not a word.

Special general meeting of members, January 8.

The President... described the business before the meeting as being the most important with which the Society had had to deal for many years. The new by-laws, which were long overdue, had been passed unanimously by the Council. It was alleged in some quarters that the Society was out for dollars—a charge which was equally applicable to some of the sections of the Press which preferred it. He felt sure that candidates would willingly pay the increased examination-fee, especially as they would be credited with the subjects in which they passed. Personally, he had felt the need of these reforms for thirty years, and he had advocated them for twenty-five. Consequently it was a source of great gratification to him that he should be occupying the Presidential chair when they were becoming established facts.

[Some questions were asked at the meeting, and the President called upon the Secretary to reply.]

The President in the comparatively long speech he made at the members' meeting did not shine as a dialectician. Why should candidates pay more for being treated justly? The statement that the President had felt the need of these reforms for thirty years is interesting, but the fact that it took him five years to decide to take up the advocacy of the alteration does not indicate the nimbleness of mind which we usually associate with our Northern friends. We had looked for something better than this from the first Scottish President of the Pharmaceutical Society, and we sincerely hope that in the few months yet remaining of his first year of office he will do something to create a yearning desire to honour him by re-electing him to the most important office which a chemist can hold in the pharmaceutical world. The fact that the members can be flouted as they have been by Mr. Currie may not be to the credit of the members, but we believe the explanation of the lack of interest taken in the matter is that the hole-and-corner proceedings have failed to arouse members to the importance of the new by-laws. The attendance at the members' meeting was not by any means representative, but for the circumstance that an important association was holding its meeting shortly afterwards in the same building the number of members present other than councillors could probably have been counted, without repetition, on the fingers of the two hands. The President may have been chilled by the smallness of the meeting, but our idea of such a momentous occasion is a President brimful of enthusiasm for the by-laws he places before the members. We expect also that he should show this by putting forth the advantages which the by-laws are calculated to confer upon the trade and upon the under-graduates who deserve so much from the country. The points brought out by Mr. Alfred Higgs, J.P., at the members' meeting were that the regulations which are to be made under the by-laws have not yet been considered owing to lack of time, and that no certificate of any kind will be issued to persons who pass Part I. of the Qualifying examination. The last decision does not reflect much credit on the Pharmaceutical Society. It is time that the old grudging spirit of treating candidates should be done away with. It would be a simple matter to print on a certificate "This certificate does not confer any right upon the holder to act as a chemist and druggist." The Apothecaries' Society define the limitation of the assistant's certificate by a notice on the certificates issued. If there are any objections still to be made to the by-laws these should be addressed to the Privy Council, which body now has the matter in hand.

Quinine in India.

LIKE many other commodities the production of quinine in India has suffered as a result of the war, and there has been a serious reduction in the reserves of the drug held in India. The abnormal needs of the armies in Mesopotamia and Palestine, and the recent prohibition of the export of quinine from Java to British India, have also helped to play their part in the depletion of stocks, but the increase in the demand in India itself for the anti-malarial campaign has also had its effect. The disappearance of exports from Java, and the small amount obtainable from England, are, however, chiefly responsible for the shortage. India in peace times imported from one and a half to two million oz. of quinine annually, but the war has now made her almost entirely dependent on her own resources. Following on this shortage a considerable amount of profiteering has taken place in India, and this has led to the temporary suspension of the issuing of quinine treatments for sale at the post offices, which points to a laxity in the system of distribution. It seems a pity that India is not apparently able to produce sufficient quinine herself, and has partly to rely on bark and quinine purchased from the Dutch colonies. There was a time, however, when India produced all the cinchona she needed. That was from 1887 to 1892 when the demand was small, and 300,000 lb. of bark, which produced 42,000 oz. of quinine, sufficed for the needs of the country. Between 1892 and 1901,

however, the output of cinchona had fallen to an average of 250,000 lb., and a similar quantity had to be purchased. In the next nine years the production rose to about 400,000 lb. of bark annually, but 150,000 lb. was purchased annually, and the production of quinine averaged 514,000 oz. The possibility of producing more bark has been considered by the Indian authorities for several years past, but although a tract of 400 square miles in Burma has been secured by the Government of India, bark from it would not be available for another ten to fifteen years. In his last annual report on the Bengal Cinchona Plantations we notice that Major Gage said that:

"During 1908-14 large sums were expended on purchase of bark and quinine at very low rates and on extra extensive plantations. Subsequent developments have thoroughly justified the then heavy expenditure. For instance, if the annual quinine yield from the plantations had remained at its 1915 figure of 9,000 lb., Government would have had to pay during 1913-15 at least Rs. 7,74,000 in purchase of enough bark or quinine to make up the quantity (74,000 lb.) distributed during these years, whereas it cost Government to make the quantity required above the 1915 output level less than Rs. 3,08,000. In those two years alone Government saved at least Rs. 4,66,000, which exceeds the deficit for a period of sixteen years. The deficit will speedily be replaced by a surplus yearly increasing, and meanwhile it is covered many times over by readily realisable assets."

From a financial point of view this is very satisfactory, but meanwhile practically the whole of the world is dependent for bark and quinine on Java, and the renewal of a contract between the Dutch quinine makers and Java planters, as recently announced, should give further consideration to the possibility of developing Indian cinchona and quinine so as to render the Empire less dependent on outside sources. According to the report of the Madras Cinchona Department for 1917-18 the output of quinine from the Madras factory amounted to 55,014 lb., as compared with 52,515 lb. in 1916-17, which itself was an increase of 60 per cent. on that of any previous year. These increases are remarkable in view of the fact that no additions have been possible to the manufacturing plant. New machinery has been on order for some time, and there is now a prospect that it may be delivered early in 1919. Over 20,000 lb. of the quinine produced was supplied to the Medical Stores, Bombay, a large part of which was required for the Forces in East Africa and Mesopotamia. The total quantity of bark worked up at the factory was 1,284,551 lb., containing the equivalent of 4.59 per cent. of quinine sulphate, of which 95 per cent. was actually recovered. The cost of extraction was 2.5 rupees per lb., which, with the cost of bark, makes the cost of production 11.5 rupees per lb. The system of selling quinine to natives through the post office at the rate of 10 grains for 1 pice continues, and on this there is a loss at present rates of about 2 rupees per lb. The amount so disposed of in 1917-18 was 5,441 lb., against 3,085 lb. in the previous year. The prices realised in other sales were as follows: Quinine sulphate, Rs. 28 to 30; quinine hydrochloride, Rs. 52-8-0 to Rs. 53-8-0; cinchona febrifuge (of which 5,904 lb. was sold), Rs. 5 to 6. The bark used included 257,250 lb. of Java ledger, 900,525 lb. purchased locally, and 126,576 lb. from estates. In continuation of the policy inaugurated last year, very little bark was taken from the department's own plantation, the amount harvested being only 87,057 lb. These plantations have been reorganised, and during the year new areas amounting to 235 acres have been planted up; the total area is now 1,183 acres, occupied as follows: *C. officinalis*, 150,000; hybrids, 610,000; ledger, 876,000. These figures give an indication of a significant change of policy on the part of the department, *officinalis* and hybrids having diminished by 52,000 and 490,000 respectively during the year, whilst ledgers have increased by 870,500. The profit for the year is reckoned at 3,42,758 rupees. According to statements in the Indian Press, the Government of India is now considering a scheme for the extension of cinchona planting to meet the requirements of India and the Empire.

Index to Volume XC.

THE index to Vol. XC. of THE CHEMIST AND DRUGGIST, covering the year 1918, is in active preparation. The index and title-page will be issued separately, as has been the practice since the Government restrictions were imposed upon the use of paper. A copy of the index will be sent to any subscriber who desires one, and we should be glad if these would signify their wishes by a postcard to the Publisher, so that the index can be forwarded so soon as it is ready. Some copies will be reserved for subscribers abroad, but, as in the case of home readers, intimation should be sent, by those who desire copies despatched to them.

Tariff Problems.

A MATTER of interest to essential-oil importers and exporters has been raised by the ruling of the United States Customs Appraiser. It appears that a parcel of Cochin lemongrass oil was shipped from London to New York, and the question was raised by the Customs as to whether the oil should have been appraised in harmony with its value in Cochin at the time of its exportation, or on the basis of its value in the English markets at the time of its exportation from London. Lemongrass oil is purchased by American buyers sometimes in Cochin and exported direct to the United States, and sometimes it is purchased in London and shipped direct to the United States. On this occasion the transaction was regarded as British rather than Cochin, although the oil had been sold to America while it was in transit from Cochin to London. There was no evidence to show the market value of lemongrass oil in London at the date of the exportation, July 19, 1917. The latest sale in London given in the testimony was May 15, 1917, and the price paid was \$1.10 per lb. c.i.f. New York, which with 4c. per lb. for packing and 10c. per lb. for freight and insurance equals 96c. per lb., at which the oil was appraised by the Customs. It appears that the oil was entered for duty by the importer at 74c. and 86c., but the Customs made a reappraisal and confirmed the 96c. per lb. figure, they maintaining that, as the market was on the upward trend from May 15, no injustice was done to the importer by the appraiser. Suppose, however, the market had declined while the goods were waiting to be shipped, we take it that the importer would then be given the opportunity of having his price for tariff duty amended by the Customs. The invoice would, of course, go through on the purchased price. In view of the fact that tentative proposals are on foot to place duties on chemicals imported into Great Britain, the delicate question of invoice values will give rise to many difficulties in this country; and if, as is suggested, the goods are to be invoiced at the prices ruling in the country of origin, the question arises as to whether the price for duty purposes is to be that ruling at the time the goods are bought or at the time the goods are shipped, as in many instances there may be a more or less lengthy interval between the two, and the market may have fluctuated considerably in the interim.

HECKMONDWIKE CO-OPERATIVE SOCIETY reports for the past quarter a profit of 3s. 11½d. in the pound in the drug-department.

THE LANGUAGE OF PHARMACY.—"I can see," said a talkative customer in a Scottish pharmacy, "that ma toanic has chloroform and stricken in it. Bit, of course, you can read the French better than I can!"

SPICES IN GERMANY.—The "Chemiker Zeitung" (October 30) has a short market report on spices, but no prices are quoted owing to the fact that there is no regular market. The maximum prices that have been paid to planters of caraway-seed have increased by 25 per cent. Coriander is offered in rather large quantities at various prices. Mustard-seed and laurel-leaves have been sold at about the same prices as prevailed at the outbreak of war. Orris-root has been sold in large lots at moderate prices for use in chewing-tobacco. Liquorice-root and liquorice-powder have been offered in large quantities. Artificial pepper is selling at extremely high prices, and for cloves extravagant rates are asked. Artificial cinnamon has become a regular product of sale. Tartaric and citric acids are occasionally offered at irregular prices.

The Manufacture of Aspirin Tablets.

THE manufacture of aspirin tablets, states Robert C. White, Ph.D., in the "American Journal of Pharmacy," may be placed in what is considered by manufacturers the delicate group. Many things coming in contact with aspirin can exercise either physical or chemical function, and so either contaminate or break down the aspirin-content. In the manufacture of any tablet there are several important features to which the manufacturer gives considerable attention. The first desirable thing is to present in tablet form the chemical as nearly in its original condition as is possible. The second important thing is disintegration, though in the case of aspirin this is not vital, as it takes, according to various authorities, about forty minutes for aspirin to become decomposed in the gastric fluids ("U.S. Dispensatory"). The next feature is to have present as little foreign ingredients as is possible. As we know, there are many materials such as potassium iodide, sodium chloride, sodium bicarbonate, potassium permanganate, sugar, etc., which, if obtained in granular form of the proper size, may be compressed without the use of any excipient, or binder, without the presence of any filler, and without the addition of any disintegrating agent whatever. The physical properties of aspirin are such that it is placed in a class of tablets known to some manufacturers as moist tablets. This class includes such tablets as quinine, acetanilide, etc., or tablets which can never be produced with a glass-like surface. The term "moist" in this case originated with the appearance of the tablet, which no amount of blowing or dusting will make entirely smooth. Such tablets, if great pressure is applied, are inclined to cap; or on account of their sticky surface allow small particles to adhere to the punches, thus leaving dents in the surface of the tablet. This to the manufacturer is known as "picking," meaning that the punches pick off a small particle, leaving a cavity in the tablet. It will be readily seen from the physical properties of aspirin that it is necessary to have present a binder, or excipient. Sugar has not proved satisfactory for this purpose, as sugar itself attracts moisture, and complicates the operating of a compressing machine. It must also be remembered that moisture decomposes aspirin, and its presence in large quantities is highly objectionable, therefore the excipient must be one that can be dried very readily, and that at a low temperature. Glucose, gelatin, and tragacanth all fail to answer on account of their sticky and slow drying qualities. Honey would not answer, as its tendency is to darken white tablets, and the need of much filler makes it unsuitable. Water alone will not bind properly. Mucilage of acacia answers fairly well, but both starch-paste and acacia are lacking in making a fine aspirin tablet. It will, however, be found that a weak solution of white dextrine in combination with a filler of starch answers better than any other excipient for producing a mass of aspirin for proper graduation.

Another feature involved in the preparation of an aspirin mass or mixture is that it must not be exposed to contamination from metals. The author has found nothing more satisfactory than the mixing of the aspirin ingredients in a special wooden tub made of maple. The operator may mix the dry ingredients through a properly protected powder mixer, but the addition of the dextrine solution must be made in these wooden tubs, the operator wearing long rubber gloves. Care should be exercised in all cases that the minimum amount of moisture, for the best results to be obtained, shall be strictly adhered to. The finished mass taken from these wooden tubs should be forced very quickly through perfectly clean and well tinned screens, placed immediately in aluminium trays, and dried *in vacuo* at a temperature not exceeding 120° F. It will be found if all these rules are observed that aspirin may be dried in three or four hours. If during this time the aspirin has not been exposed to the air it will be found that the granulation, dry and ready for compression, is in proper condition to be placed on the presses. No oil should be added in the running of aspirin tablets unless absolutely necessary on account of weather conditions. It will be found that though on account of the absence of oil the sides of the tablets will not be bright and polished (due to the moist physical properties of the ingredients as spoken of earlier), the edges will be sufficiently smooth for all purposes, and the absence of the oil (which would in time penetrate the tablet) will permit of a harder tablet. A minimum amount of pure white talcum not exceeding $\frac{1}{8}$ gr. to the tablet must be used, as otherwise picking on the surface of the tablet will occur. If the engraving of monogram punches is very fine it will be necessary to increase the amount of talcum in

order to prevent the material from sticking in the engraving. It should be borne in mind that talcum is objectionable in all cases, and as little as possible should be used. As speedy disintegration of all tablets is considered essential, a disintegrating agent must be used. Doubtless known to many, potato-starch is the disintegrating agent *par excellence*, as it swells very rapidly and ruptures a tablet very quickly when it is introduced into aqueous solution.

New Books.

Ellis, D. *Medicinal Herbs and Poisonous Plants*. 6 $\frac{1}{2}$ in. \times 4 $\frac{1}{2}$ in. Pp. 179. 2s. 6d. (Blackie & Son, Ltd.) [Dr. Ellis has attacked the subject rather differently from other recent books on herbs. He devotes the first two chapters to a concise account of the structure of the flower and the physiology of plants. He then deals with the plants under the classification of monocotyledons and dicotyledons and by natural orders. Sketches are given of the principal plants, and the reader is warned in rather strong terms regarding plants with poisonous properties. Mr. Holmes's list of medicinal plants required by the drug-trade is quoted in the appendix. Pre-war and present prices of the different plants are quoted throughout the book.]

Forster, E. L. B. *How to Become a Woman Doctor*. 6 $\frac{1}{2}$ in. \times 4 $\frac{1}{2}$ in. Pp. 134. 3s. (Chas. Griffin & Co., Ltd.) [The Dean of Charing Cross Hospital writes a foreword, in which he states that the suitability of women for the medical profession has long been decided in the affirmative. Miss Forster, who is the author of "How to Become a Dispenser," then sketches briefly the history of the struggles of the pioneer medical women, tells how to enter a medical school, the choice of schools, and the prospects of a qualified woman doctor. An estimate of the expense of qualifying is given.]

Knecht, E., and Hibbert, Eva. *New Reduction Methods in Volumetric Analysis*. Re-issue, with additions 7 $\frac{1}{2}$ in. \times 4 $\frac{1}{2}$ in. 5s. (Longmans, Green & Co.) [The book deals with the use of titanous chloride as a reducing agent in volumetric analysis, and was first issued in 1910. Since then the authors have developed the subject somewhat and incorporated the new work in the present re-issue. Titanous chloride can be used as a reducing agent in quite a large number of analytical operations involving both inorganic and organic compounds. The addendum, which is new in the present issue, deals with the use of this reagent in valuing commercial solid hydrosulphate, sulphites, and bisulphites.]

Koller, Dr. T. *The Utilisation of Waste Products: A Treatise on the Rational Utilisation, Recovery, and Treatment of Waste Products of all Kinds*. Third edition. 8 $\frac{1}{2}$ in. \times 5 $\frac{1}{2}$ in. Pp. viii + 338. 12s. 6d. net. (Scott, Greenwood & Son.) [There is no doubt at the present time of the importance of utilising all waste products. A translation of Dr. Koller's book was first issued in 1902, and each edition since then has witnessed an improvement in the text. Mr. H. B. Stocks, F.I.C., has revised the present edition. There are fifty-nine chapters, each dealing with a particular waste product, these being chiefly the residue from manufacturing processes. These chapters are devoted to the residues from sugar-works, aniline dyes, starch, illuminating gas, rosin oil, soap-making, alkali-works, potash salts, and various metals.]

Wall, O. A. *The Prescription Therapeutically, Pharmacologically, Grammatically, and Historically Considered*. 9 in. \times 6 in. Pp. 274. \$2.50. Fourth edition. (The C. V. Mosby Co., 801-807 Metropolitan Building, St. Louis, U.S.A.) [This book recalls the fact that in 1891 Dr. Wall contributed to THE CHEMIST AND DRUGGIST a Note (reprinted in the Appendix) on the origin of the prescription sign R, which has been regarded ever since as the best *résumé* of the view that this sign is a relic of former superstitious invocations of Jupiter. The different sections of the work deal with (1) general considerations, (2) weights and measures, (3) language, (4) extemporaneous prescriptions, and (5) history of the prescription. It is a student's work on prescription-reading, with the addition of fascinating historical details. There is a vocabulary (24 pages) of Latin words used in prescriptions, and the section dealing with language is an abbreviated Latin grammar. The student should note that the American pint referred to in the chapter on weights and measures is 16 oz., and should compare the equivalents of the metric system with those given in the British Pharmacopœia. The illustrations include one in colours of an ancient Egyptian hieratic script, the method of reading which is explained.]

Associations' Winter Session.

Amalgamated Society of Pharmacists, Drug and Chemical Workers.—A series of meetings with the wholesale during the week-end was followed by one for the retail on Sunday morning, January 12, seventy being present. Mr. Herbert Skinner occupied the chair, and stated the principles which guided the formation of the Union, its aims, and the method of attaining those aims. The Organising Secretary outlined the progress up to date. Mr. Todd moved and Mr. Smail seconded "That this meeting of pharmacists and assistants hereby resolves to form a retail section of the Amalgamated Society of Pharmacists, Drug and Chemical Workers." Mr. Lloyd (the Secretary) and Mr. Greenfield addressed the meeting, and Mr. Todd replied on the discussion. The resolution was carried unanimously. Two sections were immediately formed, one for pharmacists and the other for assistants, with their respective Secretaries and Chairmen, also for the purpose of appointing delegates for the annual meeting in February. Everyone present joined the Union.

Ealing.—A meeting of the Ealing Pharmacists' Association was held at Buol's Restaurant on January 7, the President (Mr. S. McKec) in the chair. The Secretary read replies by election candidates to letters from the Association requesting their support, if elected, for pharmacists in any scheme of State dispensing that may be inaugurated. It was agreed that a letter be sent to Allen & Hanburys, Ltd., supporting a resolution passed by the Devon Pharmaceutical Association, requesting this company to revert to the original scheme of discounts, which gave a larger margin of profit to the retailer than the present scheme. A sum of 43*l.* was realised by sales at the "Chemists' Stall" on "Red Cross Flag Day" arranged by the local Chamber of Commerce. The War Auxiliary Benevolent Fund was then discussed, the Secretary announcing the receipt of 43*l.* 15*s.*, composed of subscriptions from the branches of Boots, Ltd., within the area covered by the Association, and from various members of the staffs at these branches. The members present unanimously supported the scheme of the Fund, and expressed a general desire to subscribe, but were anxious to hear some particulars of the amount of money actually required, the limitations within which claimants would be accepted, and, further, if the local Associations would be requested to forward to headquarters particulars of claimants within their districts for tabulation and investigation. The Secretary was requested to obtain this information and bring it forward at the next meeting. A letter is to be sent from the Association to Mr. E. F. Strickland offering sincere congratulations upon the safe return of his son, Lieutenant Strickland, from imprisonment in a German camp.

Huddersfield.—The Huddersfield Chemists' Association met on January 9, at the rooms of the Chamber of Trade, Mr. Vincent Shaw (President) in the chair. It was announced that the amount collected for the War Auxiliary Benevolent Fund was 128*l.* 2*s.* 6*d.* In regard to demobilisation, complaint was made of the lack of consideration shown towards pharmacists. In the resumed discussion on the disposal of surplus stocks it was suggested that the practice might be extended with particular advantage in the case of expensive articles, thus avoiding loss in the event of declining prices.

London N.E.—The first evening meeting of the session of the North London Pharmacists' Association was held on January 7 at the Progressive Pharmacy Club, Mr. J. C. Carter in the chair. Mr. Councillor F. G. Hines gave an address on *Reorganisation: What is Needed*. He took as his starting-point a quotation from a copy of "Square Topics" that the object should be a central body which could speak for the entire trade. He went on to point out that several things which he had advocated, such as territorial representation and grouping into federal areas, were now being regarded as practical politics. He remarked that outside bodies did not make for disunity, and he instanced such outside bodies as the Proprietary Articles Trade Association, which certainly did not disunite. The main causes for disunity was the ignoring or suppression of free thought and free expression of opinion. He instanced how the Progressive Pharmacy Club, which it was trumpeted would make for disunity, had been one of the main forces in the consensus of opinion which was making for real progress in pharmacy by focussing attention on the essentials. Too much centralising of authority and the careful implantation of the necessity of uttering only pious platitudes outside official circles would do more to disunite than all the outside bodies for discussion which were likely to be created in pharmacy. Healthy criticism was the first necessity for a

healthy political body, corporate or otherwise; without it such bodies became moribund; the fetich of loyalty had been invoked *ad nauseam*. He would democratise the whole pharmaceutical organisation and make it really a democratically controlled body. An interesting discussion followed, in which Mr. Hearle spoke on the nucleus of construction, Mr. Keith on the inadequacy of the representation of London at the Conferences, Mr. Skinner on territorial representation with twenty-one constituencies and annual election of the whole of the Council, and Mr. Bowie on the necessity for plain speaking. Mr. Hines briefly replied, and a hearty vote of thanks was accorded.

London (W.).—A meeting of the Western Pharmacists' Association was held at 316 Regent Street, W., on January 9, the President (Mr. C. A. Noble) in the chair. After routine business had been transacted, the question of the prices that ought to be charged for clinical thermometers (1) to the public, (2) to nurses, and (3) to medical men was raised, the discussion revealing some divergencies of practice. The congratulations of the Association to Mr. Melhuish on his co-option as a member of the Council of the Pharmaceutical Society were conveyed by the President and acknowledged by Mr. Melhuish. Mr. J. T. Barrett was similarly congratulated on the award to his son, Lieutenant Barrett, of the V.C., and feelingly replied. The President then called on Mr. A. H. Jenkin to speak on *Pharmaceutical Reorganisation*. In the course of a closely-reasoned address, Mr. Jenkin gave an account of past phases of the Pharmaceutical Society's organisation, setting forth with lucidity the intentions of the founders of the Society and the more important of their successors. It was with the arrival of the National Insurance Act, he said, that lively times really began. There was no doubt that in the past the Council wanted waking up. Mr. Jenkin then gave a digest of the evidence tendered to the Committee on Organisation, mentioning Mr. Antcliffe (Sheffield) in particular as a valuable witness. After summarising the findings of the Committee, he concluded by expressing his conviction that the question really was whether unity should prevail. A lengthy discussion ensued, in which the Chairman and Messrs. Allen, W. Browne, Melhuish, and others took part. Eventually a resolution was moved by Mr. Procter embodying the opinion that the success of any scheme on a voluntary basis is doubtful without fresh legislation, and recommending legislation that would include compulsory membership of the Pharmaceutical Society for future pharmacists. The resolution was carried with one dissentient and some abstentions. A hearty vote of thanks closed the proceedings.

Salford.—At the meeting of the Salford Pharmaceutical Association on January 9, a paper was read by Mr. F. W. Bates, J.P., on *Organisation*, his suggestion being that local Pharmaceutical Associations should form themselves into twenty-one Federations (two of which were to be in Scotland). Each Federation would annually appoint a Secretary, who would be paid by the Pharmaceutical Society, and available for information, advice, and conference when required. Each Federation would nominate a candidate for the Pharmaceutical Council. The Local Associations Executive should be completely "scrapped," as well as its prehistoric method of election, and an Advisory Committee formed composed of nine members of the Pharmaceutical Council, three appointed by the Pharmaceutical Insurance Committees (representing panel chemists), two by the Association of Company Chemists, two by the Association of Chemists' Assistants, one by the Wholesale Chemists, and one by the Association of Women Pharmacists; the President of the Society to act as Chairman. All general trade and insurance matters should be dealt with by this Committee, subject to confirmation by the Pharmaceutical Council. The annual subscription to the Society should be raised to 1*l.* 5*s.*, and Associations should be urged to make every chemist in their district a member, the Secretary of each Federation or Division being paid according to the number of members in his area. If a chemist would not join an Association, and was on the panel, he would still contribute through his monthly deduction for expenses, and would, through his Pharmaceutical Insurance Committee, be represented. The method outlined would bring all classes of the trade into conference, and would represent all sections; while the extra cost to the Society would be met by the increased subscription and by the additional number of members. The suggestions were approved by the meeting, and Mr. Bates was thanked for his paper.

St. Helens.—At the monthly meeting of the St. Helens Pharmacists' Association on January 8, the policy of paying the membership subscription to the Pharmaceutical Society was informally discussed. The feeling was expressed that the Society was responsible for the lack of cohesion in the trade, and that the shabby treatment meted out to the local Pharmaceutical Committee was due to the need of a strong

policy on the part of the Society in dealing with Insurance matters. The question of the Pharmaceutical Committee resigning or "going on strike" was also seriously considered. This suggestion would be at once carried into effect if support was guaranteed by other localities.

Wolverhampton.—A meeting of the Wolverhampton Chemists' Association was held on January 1, Mr. Bowdler (President) in the chair. The Secretary announced that Hilda M. Jones and Marjory G. Lane had won the Association prizes at the Wolverhampton Technical School for chemistry and botany. It was agreed to close at 7.30 on Friday, as that hour had proved successful on the first three days of the week. The annual meeting was fixed for February 12.

Liquor Sodæ Chlorinatæ, B.P.

By R. C. Cowley, Ph.C., Captain, Senior Pharmaceutical Officer, 1st Military District, Australia.

SOME years ago (1906) the writer pointed out that the quantity of sodium carbonate in the B.P. formula was too small to precipitate the whole of the lime in solution. It should be increased to double the weight of the chlorinated lime in the formula. The B.P. 1914 gives the same formula as that of 1893. Actually the soluble matter in the lime compound requires much more sodium carbonate for complete precipitation, but when the sodium carbonate and chlorinated lime are mixed as in the manner prescribed in the official formula chemical action is never complete. When the proportions of lime compound and sodium carbonate are 50 and 100 respectively, as the writer suggests, it is found that when operating with a bleaching-powder containing 30.6 per cent. of available chlorine there is no excess of lime or of sodium carbonate in the product. Alkalisiation of the sodium carbonate is, however, produced to an extent that would probably be deleterious in treating wounds. Working with the following formula, the sodium hydroxide in the product amounted to 17.6 grams per litre:

Bleaching-powder	...	...	50 grams
Sodium carbonate ($\text{Na}_2\text{CO}_3, 10\text{H}_2\text{O}$)	...	...	100 grams

Triturate the bleaching-powder with a solution of the sodium carbonate, make up to 1 litre, allow to stand twelve hours, filter, and make up to 1 litre by passing water through the filter.

The amount of sodium hypochlorite and of sodium hydroxide can be estimated in the same volume of solution: Place 5 c.c. in a dish and titrate with a $N/10$ alkaline solution of arsenious oxide, As_2O_3 , to determine the amount of sodium hypochlorite present, sodium carbonate being, of course, the alkaline salt used for dissolving the arsenious oxide. When the action is complete this liquid is poured into a 100-c.c. flask and the dish is rinsed with recently boiled water into the flask; 10 c.c. of N barium-chloride solution is added to precipitate the carbonate, and finally the liquid in the flask is made up to 100 c.c. with boiled water. After standing sufficiently long to precipitate the carbonate of barium, 50 c.c. is taken and titrated with $N/10$ hydrochloric acid. The result is rather low, but is a sufficiently close approximation to show that undue alkalisiation of the sodium carbonate occurs.

The question now arose as to the best means of neutralising the free alkali. Both boric acid and sodium bicarbonate suggested themselves. It is interesting to note here that some formulae for surgical solution of sodium hypochlorite, such as Dakin's solution and eusol, contain boric acid, but it does not appear that the originators were clear in their minds as to the true reason for the addition. The addition of boric acid was a happy hit, but without some method of determining the quantity of free alkali present it is not possible to adjust the proportion of boric acid correctly. Any excess would liberate hypochlorous acid and render the solution less stable. Alkaline hypochlorites are well known to be more stable in solution than hypochlorous acid; indeed, they require very prolonged boiling to convert them completely into chloride and chlorate. Exposure to light has a similar effect. Daufresne's modification of Dakin's solution is in reality a solution of sodium hypochlorite made by the following formula:

Bleaching-powder (25 per cent. available chlorine)	...	...	20 grams
Sodium carbonate, dry (soda of Solway)	...	...	10 grams
Sodium bicarbonate	...	...	80 grams
Water	to a sufficient quantity to produce a solution containing 0.5 to 0.6 per cent. of available chlorine estimated by the B.P. method.		

The process is substantially that of the B.P., and the product is said to be neutral. It is difficult to see how this statement can be correct. The amount of alkaline salts is practically the same as that recommended by the writer under sodium hypochlorite. This appears to be the best of the processes already published for the preparation of solution of chlorinated soda. The chief objection lies in the rigidity of the formula, seeing that bleaching-powder is so variable a product. Bearing this in mind, the writer set out to draft a formula which will accommodate itself to the variations in the constitution of the bleaching-powder and at the same time will produce a neutral solution, or one approximately so.

This necessitated dissolving the bleaching-powder in water, filtering, estimating the amount of lime compounds in solution, and adding the exact amount of sodium carbonate to precipitate the lime; finally adjusting the liquid to contain 0.5 per cent. of sodium hypochlorite. The method finally adopted was as follows:

Bleaching-powder	...	...	50 grams
Sodium carbonate	...	...	a sufficient quantity
Water	...	...	a sufficient quantity

Triturate the bleaching-powder in a mortar with 500 c.c. of the water, transfer to a bottle, shake well from time to time, and allow to stand for twelve hours; filter, and pass water through the filter to make up to 500 c.c. Dissolve 200 grams of crystallised sodium carbonate (washing-soda) in water, and make up to 1 litre.

To 20 c.c. of the bleaching-powder solution in a porcelain dish add 10 c.c. of dilute hydrochloric acid; boil until all the chlorine has been expelled; add 2 drops of solution of methyl orange, and run in from a burette the solution of sodium carbonate until the red colour of the methyl orange is destroyed. This is solely for the purpose of exactly neutralising the liquid, and the volume of sodium-carbonate solution used is ignored. Continue to boil to expel the CO_2 . When this is accomplished add a few drops of phenolphthalein solution, and continue to run in the sodium-carbonate solution until the liquid acquires a pink colour. The volume of sodium-carbonate solution run in after adding the phenolphthalein represents that required to precipitate the soluble lime salts in 20 c.c. of the solution. From this calculate the volume required for the other 480 c.c. of solution of bleaching-powder. Mix these together and allow to stand, when most of the clear solution may be poured off; filter the remainder, and pass some water through the filter. Determine the amount of sodium hypochlorite in the solution by the alkaline arsenious-oxide method, and add water to adjust the amount to 0.5 per cent. w/v. The quantity of free alkali in this solution is so extremely small as to be of no significance. As sodium hypochlorite is hydrolysed by water to some extent, the solution will afford an alkaline reaction.

The above solution is strongly hypertonic, being equivalent to 7.5 times that of an isotonic solution. While it is highly probable that this solution when diluted in the proportion of 1 to 7.5 would be quite suitable for treating aseptic wounds, it would not have sufficient germicidal power to render a wound aseptic.

LIQUOR ALUMINII HYPOCHLORITIS.

The use of this substance as an antiseptic is by no means new. It was the subject of a patent in the year 1860. It may be prepared as follows:

Mix 50 grams of bleaching-powder with 500 c.c. of water, filter, and pass sufficient water through the filter to make up to 500 c.c. Dissolve the exact quantity of aluminium sulphate, $\text{Al}_2\text{SO}_4, 18\text{H}_2\text{O}$, in 500 c.c. of water, mix, allow to stand until precipitation is complete, pour off the clear liquid, filter the remainder, and adjust the liquid after titration with $N/10$ alkaline As_2O_3 solution to contain 0.5 per cent. w/v of available aluminium hypochlorite.

To find the exact quantity of aluminium sulphate, $\text{Al}_2\text{SO}_4, 18\text{H}_2\text{O}$, proceed as described under the formula recommended above for making solution of sodium hypochlorite, using this time N solution of sodium carbonate. In an experiment it was found that 20 c.c. of the bleaching-powder solution required for complete precipitation of the lime in solution 9 c.c. of normal solution of sodium carbonate. Therefore 20 c.c. bleaching-powder solution = 9 c.c. normal Na_2CO_3 , 100 c.c. = 45 c.c., and 500 c.c. = 225 c.c. As $3\text{Na}_2\text{CO}_3 = \text{Al}_2\text{SO}_4, 18\text{H}_2\text{O}$, 225 c.c. = $0.111 \times 225 = 24.75$ grams of $\text{Al}_2\text{SO}_4, 18\text{H}_2\text{O}$, the quantity required.

Solution of aluminium hypochlorite has not, to the knowledge of the writer, been used in the treatment of wounds in recent years. Other aluminium salts have been used, particularly the acetate. Aluminium hypochlorite is put forward by the writer as a suggestion. Since alumina is a weak base, this salt is more readily hydrolysed than sodium hypochlorite, and hence it will not be so stable.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

(Continued from C. & D., January 11, p. 49.)

III.—Wholesale Drug and Chemical Employés.

Name	Military or Naval rank and other titles	Regt.	Place with which connected	Year of Death
Adams, J. F. ...	L.-Cpl. ...	Gordons ...	Aberdeen ...	1915
Ainsworth, G. ...	Pte. ...	R. W. Kent ...	Manchester ...	1918
Albright, M. C. ...	Major ...	—	Oldbury ...	1917
Alexander, J. ...	Cpl. ...	R. Scots. ...	Edinburgh ...	1917
Astill, R. ...	Pte. ...	—	London ...	1916
Atkins, H. De C. ...	Lieut. ...	—	London ...	1915
Balfour, I. B. ...	Lieut. ...	R. Scots. ...	Edinburgh ...	1915
Barclay, E. H. ...	Pte. ...	London ...	London ...	1917
Barlow, P. ...	Lieut. ...	—	Manchester ...	1917
Barr, W. H. ...	Pte. ...	R.F.C. ...	London ...	1918
Barrett, F. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1915
Bayliss, H. W. ...	Pte. ...	R. Fus. ...	Birmingham ...	1918
Beckett, G. H. ...	Eng. ...	—	Runcorn ...	1918
Beckett, L. ...	Rfmn. ...	K.R.R.C. ...	Stratford-on-Avon ...	1918
Beckley, V. L. ...	Cpl. ...	R.F.A. ...	London ...	1918
Bellamy, H. S. ...	Pte. ...	Leicesters ...	Leicester ...	1916
Belthe, F. ...	Pte. ...	R.A.M.C. ...	London ...	1917
Bennett, S. A. ...	Pte. ...	M.G.C. ...	Liverpool ...	1918
Birdseye, D. ...	2nd-Lt. ...	Staffs. ...	London ...	1917
Birch, J. C. ...	Cpl. ...	Can. For. ...	Edinburgh ...	1917
Bonner, D. G. ...	L.-Cpl. ...	Gordons ...	Aberdeen ...	1918
Booth, H. ...	Pte. ...	S. Lancs. ...	Huddersfield ...	1917
Bowers, J. ...	Pte. ...	—	London ...	1918
Bowman, G. C. ...	Sub-Lt. ...	R.N.A.S. ...	Leeds ...	1917
Bowman, W. P. ...	Lieut. ...	R.F.C. ...	Leeds ...	1916
Boyce, J. H. ...	Tr. ...	Hussars ...	London ...	1915
Braddock, C. R. ...	Pte. ...	K.R.R.C. ...	London ...	1917
Briggs, J. ...	Sgt. ...	Worcesters ...	Birmingham ...	1916
Brookes, H. E. V. ...	Pte. ...	London ...	London ...	1917
Brown, C. A. ...	Lieut. ...	—	London ...	1917
Brown, H. ...	Pte. ...	Manchester ...	Nelson ...	1917
Brown, J. W. ...	2nd-Lt. ...	Yorks ...	Leeds ...	1917
Bruce, T. ...	Pte. ...	Manchester ...	Manchester ...	1917
Brunner, C. H. ...	Capt. ...	R.F.A. ...	Liverpool ...	1917
Brunner, F. W. ...	Major ...	R.E. ...	Northwich ...	1916
Brunton, H. P. ...	Lieut. ...	R.A.M.C. ...	London ...	1915
Burke, H. ...	Pte. ...	Manchester ...	Ashton-u-L. ...	1918
Burns, J. ...	Pte. ...	Cameron's ...	Edinburgh ...	1917
Bush, A. J. ...	2nd-Lt. ...	Lincs. ...	Leeds ...	1917
Bush, W. A. ...	Pte. ...	E. Yorks. ...	Leicester ...	1918
Campbell, W. ...	Pte. ...	H.L.I. ...	Glasgow ...	1915
Care, G. B. ...	2nd-Lt. ...	R. Scots. ...	Edinburgh ...	1917
Carmichael, J. A. ...	C. S.-M. ...	K.L.R. ...	Manchester ...	1918
Carr, B. E. ...	Pte. ...	—	Reading ...	1917
Casson, J. ...	Pte. ...	R. Berks. ...	Birmingham ...	1915
Casswell, C. W. ...	Major ...	—	London ...	1916
Caton, F. W. ...	2nd-Lt. ...	R.E. ...	London ...	1916
Chambers, F. ...	Pte. ...	—	Dartford ...	1917
Clark, C. J. ...	Capt. ...	A.S.C. ...	Edinburgh ...	1918
Clark, E. ...	Lieut. ...	R.F.C. ...	Maidstone ...	1916
Clarkson, S. ...	Pte. ...	Lancs. Fus. ...	Manchester ...	1919
Clifford, A. ...	Pte. ...	—	Birmingham ...	1917
Cockcroft, W. ...	Pte. ...	R.A.M.C. ...	Walsden ...	1917
Collins, D. ...	Pte. ...	Blk. Watch ...	Belfast ...	1917
Cooper, H. ...	L.-Cpl. ...	E. Lancs. ...	Burnley ...	1917
Cooper, J. R. ...	Pte. ...	Border ...	Manchester ...	1915
Cordery, H. ...	Cpl. ...	R. Fus. ...	London ...	1916
Cowburn, F. ...	Pte. ...	R.W.R. ...	Atherton ...	1918
Cox, W. H. ...	Pte. ...	Queen's ...	Brighton ...	1917
Crowther, O. H. ...	Lieut. ...	R.N.V.R. ...	Oldbury ...	1916
Culling, H. R. ...	Pte. ...	Rifle Bgde. ...	London ...	1918
Cunningham, S.H. ...	Cpl. ...	A.C.C. ...	Liverpool ...	1915
Cuthbert, G. ...	Capt. ...	Mdx. ...	London ...	1915
Dakers, J. ...	L.-Cpl. ...	R.S. Fus. ...	Edinburgh ...	1918
Daley, H. ...	Pte. ...	—	Leeds ...	1918
Davis, L. N. ...	Lieut. ...	R.E. ...	London ...	1915
Dawson, A. ...	L.-Cpl. ...	R. Fus. ...	Huddersfield ...	1917
Devitt, G. P. O. ...	2nd-Lt. ...	Rifle Bgde. ...	London ...	1915
Dobbin, W. K. ...	Pte. ...	R. Fus. ...	Belfast ...	1916
Doncaster, P. ...	Pte. ...	Coldstreams ...	Nottingham ...	1917
Downes, F. W. ...	Gnr. ...	H.A.C. ...	London ...	1918
Drysdale, A. C. ...	Pte. ...	H.A.C. ...	London ...	1915
Duff, J. ...	Sgt. ...	Gordons ...	Aberdeen ...	1915
Edwards, A. E. ...	Drumr. ...	Welsh ...	Cardiff ...	1916
Edwards, J. ...	Pte. ...	—	Burnley ...	1917
England, C. ...	Pte. ...	Worcesters ...	Oldbury ...	1917
Evans, E. H. S. ...	Capt. ...	Lancs. Fus. ...	Liverpool ...	1916
Evans, H. A. ...	Rfmn. ...	—	London ...	1917
Ewen, P. K. S. ...	Lieut. ...	K.R.R.C. ...	London ...	1916
Fairbairns, A. ...	Capt. ...	Yorks ...	London ...	1918
Farrington, L. ...	Spr. ...	R.E. ...	Manchester ...	1918
Featherstone, W.D. ...	Lt. M.C. ...	R.F.A. ...	Birmingham ...	1918
Fergusson, E.K.O. ...	Capt. ...	Seaforths ...	Liverpool ...	1916
Ferris, H. N. ...	Lieut. ...	Glosters ...	London ...	1917
Flach, G. ...	Pte. ...	—	London ...	1916
Fletcher, R. H. ...	Lieut. ...	R. Fus. ...	London ...	1916
Forster, H. ...	Pte. ...	—	Manchester ...	1918
Foster, C. ...	L.-Cpl. ...	K.L.R. ...	Church (L.) ...	1918
Fraser, W. St. J. ...	Cndr. ...	R.N. ...	Edinburgh ...	1915
Frost, G. ...	L.-Cpl. ...	Manchester ...	Manchester ...	1915
Frost, J. ...	Sgt. ...	Lancs. Fus. ...	Manchester ...	1915
Garvey, A. ...	Pte. ...	S. Lancs. ...	Manchester ...	1916
Gibbons, R. B. ...	Capt. ...	R.W.R. ...	Birmingham ...	1917
Gillman, R. J. ...	Lieut. ...	Yeomanry ...	Birmingham ...	1918
Glass, A. ...	Pte. ...	Mdx. ...	Birmingham ...	1916
Glass, L. ...	Pte. ...	Mdx. ...	Birmingham ...	1916
Gold, W. J. ...	Pte. ...	Queen's ...	Dartford ...	1917
Good, J. ...	Pte. ...	Cameron's ...	Leith ...	1918
Gould, C. O. ...	Pte. ...	R.W.R. ...	Birmingham ...	1915
Gower, W. E. ...	Gnr. ...	K.R.R.C. ...	London ...	1917
Guest, T. ...	Major ...	Y. & L.R. ...	Manchester ...	1916
Haddield, H. ...	Spr. ...	R.E. ...	Northwich ...	1917
Haller, J. H. L. ...	Lieut. ...	R. Surrey ...	London ...	1915
Hambledon, L. ...	Pte. ...	R.L.R. ...	Liverpool ...	1917
Hampson, H. W. ...	Lieut. ...	—	Liverpool ...	1917
Hardie, W. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1916
Hargreaves, R. V. ...	Cpl. ...	—	Blackburn ...	1917
Harrington, C. S. ...	Lieut. ...	Connaghts ...	Cork ...	1917
Hartley, E. ...	Cpl. ...	R. Fus. ...	Nelson ...	1916
Hartley, S. ...	Pte. ...	Labour C. ...	Manchester ...	1917
Heron, J. M. ...	Major ...	Essex ...	Mistley ...	1917
Hesmondhalgh, R. ...	Pte. ...	A.S.C. ...	Preston ...	1918
Hicks, F. A. ...	Lt. M.C. ...	R. Fus. ...	London ...	1918
Hindle, A. ...	Pte. ...	R.A.M.C. ...	Manchester ...	1918
Hirst, H. ...	Pte. ...	W. Yorks. ...	Cleckheaton ...	1917
Holman, W. E. ...	Rfmn. ...	London ...	London ...	1917
Honeywill, S. R. ...	2nd-Lt. ...	R. Fus. ...	London ...	1918
Horner, W. F. ...	A.-Lt. ...	R.N. ...	London ...	1917
Houston, A. V. ...	Sgt. ...	R.E. ...	Edinburgh ...	1916
Hugill, E. A. ...	Capt. ...	—	London ...	1917
Ingham, P. ...	Pte. ...	W.R.R. ...	Huddersfield ...	1918
Jardine, C. H. ...	Lieut. ...	R. Scots. ...	Edinburgh ...	1918
Jebb, C. F. ...	Cpl. ...	R.E. ...	Pendleton ...	1917
Johnson, G. B. ...	Major, D.S.O. ...	R.F.A. ...	Liverpool ...	1918
Jones, R. H. ...	L.-Cpl. ...	—	Liverpool ...	1917
Jowett, W. H. ...	Lieut. ...	K.L.R. ...	Blackburn ...	1916
Keeping, G. ...	Pte. ...	R.A.M.C. ...	Brighton ...	1915
Keeping, H. ...	Pte. ...	R.A.M.C. ...	Brighton ...	1915
Kerr, R. ...	2nd-Lt. ...	London ...	Glasgow ...	1917
Kettlewell, J. W. ...	Pte. ...	—	York ...	1916
Kirk, T. ...	Lieut. ...	—	Manchester ...	1915
Laing, J. G. ...	Major ...	London ...	London ...	1918
Lamb, J. ...	2nd-Lt. ...	R. Scots. ...	Edinburgh ...	1917
Lamb, W. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1915
Lane, M. ...	Lieut. ...	London ...	London ...	1917
Langham, R. ...	Cpl. ...	E. Lancs. ...	Hapton ...	1917
Latimer, W. L. ...	L.-Cpl. ...	R.I.R. ...	Belfast ...	1917
Leach, E. ...	Pte. ...	K.L.R. ...	Liverpool ...	1916
Leece, F. ...	Pte. ...	—	Liverpool ...	1917
Leece, H. ...	Pte. ...	N. Staffs. ...	Longton (S.) ...	1917
Lethbridge, C. H. ...	Pte. ...	L.N.L.R. ...	Manchester ...	1917
Lewis, P. J. ...	Gnr. ...	—	London ...	1917
Long, F. J. ...	Lieut. ...	R.F.A. ...	London ...	1917
Lovatt, W. ...	Pte. ...	W. Yorks. ...	Manchester ...	1918
Loy, E. ...	Pte. ...	—	Bury (L.) ...	1916
Maben, J. A. ...	Lieut. ...	Dorsets ...	London ...	1918
Maheu, W. A. ...	Pte. ...	Shr. L.I. ...	London ...	1917
McConnell, J. ...	L.-Cpl. ...	Border ...	Manchester ...	1917
McLarence, S. ...	Lieut. ...	—	Liverpool ...	1917
MacMillan, C. E. ...	Cpl. ...	—	London ...	1918
Manks, H. M. ...	Sgr. ...	Rifle Bgde. ...	London ...	1918
Mann, J. E. H. ...	Sgt. ...	H.A.C. ...	London ...	1917
Marsden, H. ...	2nd-Lt. ...	K.L.R. ...	Liverpool ...	1917
Massey, H. ...	Pte. ...	Mdx. ...	Radcliffe ...	1918
Maxwell, B. R. ...	L.-Cpl. ...	R.L.R. ...	Manchester ...	1916
Millington, F. ...	Drvr. ...	R.A.M.C. ...	Ashton-u-L. ...	1918
Mills, W. J. ...	Pte. ...	Mdx. ...	London ...	1915
Milson, C. ...	Pte. ...	Y. & L.R. ...	Cleckheaton ...	1917
Minshull, J. L. ...	Capt. ...	London ...	London ...	1917
Moir, A. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1918
Moore, F. ...	L.-Cpl. ...	K.L.R. ...	Manchester ...	1916
Mond, F. L. ...	Lieut. ...	R.A.F. ...	Northwich ...	1918
Morley, F. ...	Pte. ...	L.N.L.R. ...	Manchester ...	1918
Monntfield, J. G. ...	Pte. ...	R.W. Fus. ...	Manchester ...	1918
Muckley, T. ...	Pte. ...	S. Lancs. ...	Warrington ...	1918
Newbery, R.F.T. ...	Lieut. ...	R.A.M.C. ...	Edinburgh ...	1916
Norris, H. ...	Pte. ...	M.B. Ch.B. ...	—	—
Noyce, F. ...	Pte. ...	E. Lancs. ...	Radcliffe (N.) ...	1918
Orange, F. A. J. ...	Pte. ...	R. Sussex ...	Brighton ...	1915
Penrose, S. ...	Pte. ...	—	London ...	1917
Peover, J. W. ...	Pte. ...	W. Yorks. ...	York ...	1915
Planner, G. S. ...	Pte. ...	Manchester ...	Manchester ...	1918
Platts, A. L. ...	Pte. ...	H.A.C. ...	London ...	1917
Plumbe, W. ...	Lieut. ...	Suffolk ...	London ...	1916
Powell, G. W. ...	Pte. ...	—	Mansfield ...	1918
Prendergast, J.W. ...	Pte. ...	Yeomanry ...	London ...	1917
Preston, S. ...	L.-Cpl. ...	E. Lancs. ...	Hapton ...	1917
Prince, J. S. ...	Major ...	Mdx. ...	London ...	1917
Quibell, S. ...	2nd-Lt. ...	London ...	London ...	1915
Ranson, F. H. ...	Major ...	E. Yorks. ...	Newark ...	1916
Reilly, E. ...	Pte. ...	K.L.R. ...	Liverpool ...	1917
Rennie, R. ...	Pte. ...	R.E. ...	Edinburgh ...	1917
Riley, A. ...	Pte. ...	A. & S.H. ...	Edinburgh ...	1916
Riley, O. ...	Rfmn. ...	Rifle Bgde. ...	Bardsley Vale ...	1918
Ritch, W. R. ...	Pte. ...	L.N.L.R. ...	Hapton ...	1918
	Capt. ...	Scot. Rifles ...	Manchester ...	1918

Name	Military or Naval rank and other titles	Regt.	Place with which connected	Year of Death
Robertson, J. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1916
Robinson, F. B. ...	Capt. ...	Sher. For. ...	Chesterfield ...	1916
Rolls, W. H. S. ...	Pte. ...	H.L.I. ...	Leeds ...	1917
Rossall, A. ...	L.-Cpl. ...	R.L.R. ...	Fleetwood ...	1917
Routhan, W. ...	L.-Cpl. ...	K.O.Y.L.I. ...	Leeds ...	1918
Rowed, O. H. ...	Lieut. ...	S. Lancs. ...	St. Helens ...	1916
Salter, C. ...	Lieut. ...	R.N.R. ...	Sunderland ...	1917
Segnitz, H. F. ...	2nd-Lt. ...	H.A.C. ...	London ...	1915
Sergeant, A. ...	Pte. ...	Aus. For. ...	London ...	1917
Seymour-Jones, A. ...	Lieut. ...	S. Lancs. ...	Warrington ...	1915
Sheldon, F. ...	Drvr. ...	—	Sheffield ...	1917
Sherborne, T. K. ...	Pte. ...	Rifle Bgde. ...	London ...	1917
Shires, W. ...	Pte. ...	W.R.R. ...	Leeds ...	1918
Simmons, J. ...	Pte. ...	Lancs. Fus. ...	Manchester ...	1918
Smith, A. ...	Pte. ...	W. Yorks. ...	Leeds ...	1917
Smith, G. ...	Sgmr. ...	R.Scots.Fus. ...	Dewsbury ...	1917
Snowden, J. ...	Cpl. ...	R.I.R. ...	Belfast ...	1917
Sonthall, W. P. ...	Lieut. ...	R.A.F. ...	Birmingham ...	1918
Stallman, F. H. ...	Cpl. ...	—	London ...	1917
Stenton, J. ...	Pte. ...	W.R.R. ...	Cleckheaton ...	1918
Sutcliffe, J. ...	Pte. ...	Can. For. ...	London ...	1917
Sutcliffe, R. W. ...	Pte. ...	R. Fus. ...	London ...	1916
Sutherland, H. ...	Pte. ...	H.L.I. ...	Glasgow ...	1918
Sykes, F. ...	Pte. ...	—	Liverpool ...	1917
Taffs, E. A. ...	Pte. ...	N.Z.Rf. ...	London ...	1918
Tennant, C. A. R. ...	Lieut. ...	Dorsets ...	London ...	1915
Thompson, G. C. ...	Pte. ...	A. & S.H. ...	Selby ...	1917
Thompson, H. R. ...	2nd-Lt. ...	R.S.A. ...	Bakewell ...	1918
Thomson, D. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1915
Tiplady, H. W. ...	Pte. ...	K.O.Y.L.I. ...	Leeds ...	1918
Tolkien, H. ...	Pte. ...	R.L.R. ...	Blackburn ...	1918
Tough, W. ...	Sgt. ...	R.F.A. ...	Aberdeen ...	1917
Tranter, W. R. ...	Pte. ...	Cameron's ...	Edinburgh ...	1915
Trehearn, A. W. ...	L.-Cpl. ...	R. Fus. ...	London ...	1917
Tully, R. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1917
Turner, F. ...	Pte. ...	L.N.L.R. ...	Burnley ...	1917
Twose, H. C. ...	Gnr. ...	R.F.A. ...	Accrington ...	1917
Udall, W. E. ...	Sgt. ...	—	Liverpool ...	1916
Umney, B. C. L. ...	2nd-Lt. ...	R. Fus. ...	Richmond (S.) ...	1916
Umney, C. F. ...	2nd-Lt. ...	Dorsets ...	London ...	1916
Vorley, W. K. ...	Lieut. ...	R.F.A. ...	London ...	1916
Waldron, C. H. ...	Lieut. ...	Lincs. ...	London ...	1916
Walker, J. ...	Pte. ...	E. Lancs. ...	Bradford ...	1918
Walmsley, T. H. ...	Gnr. ...	R.G.A. ...	Halifax ...	1917
Wanklyn, H. G. ...	Lieut. ...	R.N.A.S. ...	London ...	1915
Waterworth, D. ...	Pte. ...	R.W. Fus. ...	Baxendale ...	1918
Webster, M. J. ...	1st A.-M. ...	R.F.C. ...	London ...	1918
Welss, E. S. ...	2nd-Lt. ...	R.F.C. ...	London ...	1917
White, T. ...	2nd-Lt. ...	N.L.R. ...	London ...	1916
Whitehead, W. ...	Pte. ...	Northants ...	London ...	1916
Whyte, T. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1915
Wiley, J. E. ...	Gnr. ...	R.A.F. ...	Bradford ...	1918
Willdey, G. B. ...	Pte. ...	R.W.R. ...	Liverpool ...	1916
Williams, F. ...	Pte. ...	Manchester ...	Manchester ...	1917
Wilson, R. ...	Pte. ...	R. Scots. ...	Edinburgh ...	1918
Wimble, H. R. ...	Cpl. ...	Rifle Bgde. ...	London ...	1915
Wood, A. W. ...	Cpl. ...	Aus. For. ...	Birmingham ...	1918
Wood, G. ...	1.-Cpl. ...	Lancs. Fus. ...	York ...	1917
Wright, R. ...	Sgt. ...	Rifle Bgde. ...	London ...	1916
Wroc, W. ...	L.-Cpl. ...	R.W. Fus. ...	St. Helens ...	1917
Wyley, W. R. F. ...	Lieut. ...	R.F.A. ...	Coventry ...	1916

Medical Gleanings.

Collosol Manganese in Furunculosis.

In the case of a man suffering acutely from boils for five years, Levinson ("Brit. Med. Jour.," 3007, p. 160, 1918) gave an injection of 0.5 c.c. of collosol manganese, and each week following for the next five weeks an injection of 1 c.c. After the second injection, the boils, five in number, rapidly cleared up, and the patient has since been absolutely clear, and felt better in general health.

Some Uses of Menthol.

In the place of various sprays, Atkinson ("Brit. Med. Jour.," 3016, p. 433, 1918) suggests that menthol crystals should be ground and kept in a tin box in the waistcoat pocket, so as to be ready for use when respiration becomes difficult and troublesome. All that is required is to wet the fore or little finger so as to get a small quantity of the menthol to adhere to it, and then rub the inside of the nostril as far only as the edge of the cartilage. After this a forced nasal expiration should be made. In inflamed sebaceous follicles, ground menthol should be rubbed in with a damp finger.

Formaldehyde-Phenol in Camphor Paraffin.

CONNELL ("Surgery, Gynecology, and Obstetrics," 27, 81) states that this antiseptic combines the rapid sterilising action of formaldehyde with the slow embalming action of phenol, while the presence of camphor paraffin as a solvent mitigates the painful properties of formaldehyde and the local and general toxicity of phenol. The following mode of preparation is given: (A) To 70 parts of powdered camphor add 30 parts of phenol liquefied by heat; a clear solution results. (B) Melt together about 3 parts of paraffin (50° m.p.) and 9 parts of paraffin oil, adjusting the proportions until the mixture frosts on the bulb of a test thermometer at 40°. Add 45 parts of A to 50 parts of B, which yields a solution freezing at 35°. A 10-per-cent. solution of formaldehyde in alcohol is prepared (C), preferably by adding formaldehyde to alcohol and dehydrating by decaecated sodium sulphate. To 9 parts of the mixture of A+B at 40° add slowly 5 parts of C; a clear solution of all the ingredients results, which freezes and melts at 36°.

Treatment of Psoriasis in the Army.

BARBER ("Brit. Med. Journ.," 2987, p. 369) describes the method of treating psoriasis adopted by him, which has afforded more rapid and uniform results than any other he had hitherto tried. In cases of a generalised eruption on the body and limbs, the patient is given a bath every morning, to which on the first two days 1 oz. of cresol is added, and a handful of sodium or potassium carbonate; on subsequent mornings the cresol is omitted. After the morning bath, and again in the evening, the following ointment is applied to all the affected parts from the neck downwards, excepting the genitals:

Chrysarobin. ...	gr. x.
Ac. salicyl. ...	gr. xv.
Ac. carbolic. ...	gr. x.
Zinc. oxid. ...	5iss.
Lanolin, ...	
Vaselin. ad ...	aa. 3j.

Throughout the period of treatment a suit of pyjamas is worn night and day, which becomes thoroughly impregnated with the ointment. Should any area of the skin become acutely inflamed and tender, the application of the ointment to that part is at once discontinued, and instead a soothing preparation—*e.g.*, Lassar's paste (to which a little ichthyol may be added)—is thickly applied to the affected region. Resistant patches are treated with a stronger ointment—*i.e.*, the chrysarobin. and ac. salicyl. are increased by 10 gr. This is rubbed well into the patches twice daily, and is also kept applied to them on lint during the night.

For the treatment of the scalp and forehead, after cutting the hair very short and shampooing the scalp three times a week, the following ointment is kept applied by means of lint, or by a closely fitting linen cap:

Ac. pyrogall. ...	gr. x.
Ac. salicyl. ...	gr. xv.
Ac. carbolic. ...	gr. x.
Ung. hyd. ox. flav. ...	3j.

Psoriasis of the face and front of the neck generally yielded to zinc ointment containing 10 gr. of ammoniated mercury and 20 to 30 gr. of salicylic acid. In more resistant cases the pyrogallic acid ointment, as recommended for the scalp, proved effective.

At the Counter.

"3d. worth of castor-oil gums, like the top of a dummy with castor oil in them," is a request received by a Bridgewater chemist.

WHAT WAS THE DISEASE?—The following order (135/39) emanates from Devonshire:

"Dear Sir igets Pain in my Pool an head an when it com my head it Gaves me pain an make my head Swemey idont no the Cost of it an please to send 1s. worth of somthing to Coure it so to Conclude this time From your Truley, —"

THE ORIGINALS of the following orders (66/65) are in the handwriting of natives of Small Heath, Birmingham—our correspondent oruelly styles them "small heathens": Fissing sufurate of soda; discecting Powder—Coridor Lime; Jays condecending Fluid; carbolic acid in powdard forme as a pear cirvit. "The Doctor says I have an adulterated stomach," comes from the same district.

FROM THE NORTH come the following requests—some of them very good "shots": Jack of clubs; tincture of capture comb; Atheopeiom mineral; sensational sachet; tin of microbes; 1d. Romornay; amonated Tiner of gluehackham; acidity in Stick; 2d. Education; Sygule Syrip; Hearts of Fetitita; nibble sarve not to hurt the baby. From the same area comes a story of an orderly who hands over the counter a spool of exposed film with the remark, "Colonel — has sent this to be evaporated."

Trade Report.

42 Cannon Street, E.C. 4, January 16, 3 p.m.

BUSINESS still continues very quiet, and is confined to consumptive demand for absolutely necessary requirements. With the present element of uncertainty and downward tendency of prices there is little encouragement to take in fresh stocks. As the month advances no doubt matters will improve in this respect. There are numerous orders awaiting execution, but with markets in a state of flux more caution than usual is necessary, the feeling being that prices of many products have not yet reached their lowest. As will be seen from the table given below, there has been an acceleration in the downward movement, but nothing of an outstanding character. Benzoic acid, citric and tartaric acid, refined camphor slabs, menthol, and vanillin have all eased. Among drugs, cascara sagrada, calumba, senega, sarsaparilla, honey, gentian, and ipecacuanha are cheaper. Ergot is held for an advance. A further reduction has been made in cloves and pepper. Changes in essential oils include a cheaper market for lime oil, Japanese mint, eucalyptus, lemon, and clove oils. Saccharin is lower.

Higher	Firmer	Easier	Lower
Ergot	Formaldehyde	Balsam tolu	Agar-agar
Guaiaicum	Hexamine	Benzoic acid	Albumen
	Myrrh	Cadmium	Antimony (cr.)
		Camphor (Jap. ref. slabs)	Arsenic
		Caraway-seed	Bromides
		Citric acid	Calumba
		Clove oil	Cascara sagrada
		Coumarin	Cassia lignea
		Damiana	Cloves
		Eucalyptus oil	Farina
			Galls
		Gentian	Gum acacia
		Kola	Hen-yolk
		Lemon oil	Honey
		Lime oil	Ipecacuanha
		(W.I.)	Liquorice
		Menthol	juice (block)
		Mint oil (Jap.)	Mace
			Milk-sugar
			Nutmegs
			Pepper
			Petroleum-jelly
			Pimento
			Saccharin
			Safrol
			Sarsaparilla
			Senega
			Shellac
			Tartaric acid
			Vanillin

Cablegram.

NEW YORK, January 15.—Business is fair. Menthol has been reduced to \$6 per lb. Curaçao aloes in cases is cheaper at 83c. Mexican sarsaparilla is lower at 32c., and hydrastis has been reduced to \$5.30. Other drugs which have been reduced include jalap, which is now 54c., and belladonna-leaves, 75c. per lb. Long and short buchu have advanced to \$2.70. Mercurials have been reduced by the makers.

ALBUMEN is cheaper on the spot at from 4s. 9d. to 5s. for egg. Dried egg-yolk is also cheaper at from 3s. to 3s. 3d., and in liquid a good business has been done to arrive at 120s. per cwt. c.i.f.

ANTIMONY.—We understand that a few small lots of Chinese crude have been disposed of at about 45% per ton, and that a parcel has been booked for shipment at 40% c.i.f. U.K. There is not much offering, and terms are relatively well held compared with the erratic and weak state of the market in foreign regulus. A small lot of this has been cleared at as low as 40%, but business has been done at all sorts of prices at around 50%, while there are sellers at 48%, and probably less. This gives an idea of the state of the market. Licences for shipment are still extremely difficult to get hold of. Prices in America have again slumped to about 7½ cents per lb.

ARSENIC.—Although prices kept up remarkably well in the last month or two at from 90% upward, we hinted some time back that they would come down materially in the

long run, as the aspect of the market had been entirely changed since the elimination of the outlet for war use, and this is precisely what has happened for a week or so past. Prices, indeed, have collapsed rather badly. Business has been done at below 85%, and offers have been on the increase, holders being anxious to clear. The range of values seems to be about 80% to 83%, sellers in Northern home ports being more particularly eager to do business.

ASPIRIN.—The demand appears to be well maintained at about 15s. 6d. for spot supplies. There are, however, some very low offers from the United States.

BENZOIC ACID ex toluol has eased down to 17s. to 17s. 6d. per lb.

BISMUTH.—The Minister of Munitions has issued an Order which modifies the Bismuth Order, 1918. The obligations contained in Clause 2 (5) of the original Order are removed, so that it is no longer necessary for those who, in any manufacture, use bismuth metal or any alloy thereof, to make to the Controller on the first day of every month a return showing the quantity received by him from the producer, the quantity consumed by him during the preceding month, and the stock in hand at the end of the month. It is further provided that no return is required from any person whose total stock in hand and not intended to be used in connection with the manufacture or alloy of steel or other material does not exceed in the case of bismuth metal or any alloy thereof 56 lb.

BROMIDES.—The English makers have revised their prices more in accordance with market conditions. They now quote potash crystals at 5s., soda at 4s., and ammonium at 4s. 6d., these being the lowest bulk prices. These prices are regarded as reasonable, and the demand should be stimulated, as little appears to have been bought for some weeks past. Arrivals of potash bromide amounting to 130 cases have taken place from the U.S.A. and Japan.

BUCHU remains firm, bright green round offering at 7s. 6d. to 8s., bronzy round at 7s. 3d. to 7s. 6d., ovals 6s. 6d. to 7s., and longs 6s. 6d. to 6s. 9d. per lb.

CADMIUM.—Prices lately gave way rather sharply to about 8s. per lb., and this figure has even been shaded, due to a poor demand and more metal offering. The new use alleged to have been found for cadmium as an alloy with lead and tin for the manufacture of solder does not seem to have had any effect on the price, although it is claimed that the experiment carried out to that effect has turned out satisfactory.

CAMPHOR (REFINED) is easier, with Japanese 2½-lb. slabs offering at 6s. 6d. to 6s. 7½d. per lb. and ½-oz. tablets at 7s. 9d. on the spot, the latter being unchanged.

CARAWAY-SEED.—Good quality Tunis is offering at 225s. per cwt. on the spot.

CASSIA LIGNEA is lower, with sellers of whole selected on the spot at 105s. and broken at 100s. per cwt.

CINCHONA.—As mentioned some time ago, the Amsterdam stock of bark in first-hands consists of 837 bales, which were landed in Amsterdam in June 1917, and recently released for home consumption only. Of these 837 bales, 110 bales pharmaceutical bark, weighing 9,401 kilos., and containing 405 kilos. quinine, will be put up in auction on January 23.

CITRIC ACID.—There is a tendency on the part of some dealers to unload stocks, and prices are being cut as the result of sluggish trade; from 4s. 6d. to 4s. 8d. is quoted.

CLOVE OIL is easier at from 14s. 6d. to 15s. per lb. on the spot, as to seller.

CLOVES have shed another 3d., fair Zanzibar offering on the spot at 1s. 6d.

COFFEE SULPHATE.—Some merchants report a little more export business, and the tone appears fairly steady in spite of the continuous unsettlement in the metal. Orders could be placed at 60%, and possibly rather less, f.o.b. Liverpool, less the usual discount. No special business has transpired for shipment to France, where a fair amount of material secured from this side is waiting for disposal. More inquiry is reported from other countries, but business is difficult owing to licence restrictions.

COUMARIN is easier, with spot offering at 137s. 6d. per lb.

DAMIANA-LEAVES.—Recent arrivals have eased down spot prices, and about 3s. per lb. will now buy.

EUCALYPTUS OIL is easier, with sellers of B.P. oils at from 4s. to 4s. 3d. per lb. on the spot. In the drug auction 10 cases of 67 per cent. were limited at 3s. 9d. and 53 cases 70 per cent. at 4s. per lb.

FARINA is dull and lower, with sellers of No. 1 Japanese at 54s. to 55s. on the spot and January-March shipment at 50s. c.i.f. Sweet is quoted at 53s. to 54s. on spot.

FORMALDEHYDE has been advanced in the United States. It will be remembered that the maximum official price fixed by Army Council at 150% per ton is cancelled as from March 1, when it is anticipated the open market price may be raised. As previously reported, the methyl alcohol posi-

tion in the U.S. is very strong, this accounting for the advance on that side.

GENTIAN.—Some holders are anxious to make progress, and with good stocks on hand 70s. to 75s. per cwt. would be accepted.

GUAIACUM is very scarce, fine glassy lump being held at 3s., and for common, 4s. 6d. to 5s.

GUM ACACIA is lower, with fair Sudan sorts offering at 2s. 6d. and cleaned at 65s. on the spot.

HEXAMINE.—The price has been raised in the United States, and on the spot from 5s. 6d. to 6s. is quoted.

INSECT-FLOWERS.—Japanese closed offer on the spot at 185s. per cwt.

JALAP.—Vera Cruz continues scarce and wanted. Some Brazilian testing 14 per cent. is offered at 1s. 4½d. per lb.

LEAD PRODUCTS.—The tendency is in the direction of ease, chiefly owing to the big accumulation of raw material, but export demand is fairly active. Red lead, which recently commanded a big premium for shipment outside of the British Colonies, is now obtainable at the same figure for all destinations—namely, 55½ 15s. per ton.

LEMON OIL is easier on the spot at from 5s. 8d. to 6s. per lb.

LIME OIL.—West Indian distilled is cheaper at 5s. 6d. per lb. on the spot; hand-pressed is 16s.

LIQUORICE-JUICE.—Finest Italian block on the spot is about 5s. per cwt. cheaper, offering at 320s. net. At auction 25 cases Spanish block (80 per cent. extractive) were offered without reserve, but no bid was made.

LIQUORICE-ROOT is steady, cut decorticated offering at 180s. and cut natural at 110s. to 115s.

MENTHOL is quiet and easier; although the nominal spot value is 20s., an offer to sell at 19s. 9d. per lb. has not yet to business. In auction five cases of Suzuki were limited to 20s. The exports from Japan during October 1918 amounted to 9,432 kin, valued at 79,616 yen, and during the ten months ended October 31 they were as follows:

	1916	1917	1918
Kin ...	336,994	221,838	217,776
Yen ...	2,077,080	1,417,424	1,368,085

The destinations were as follows:

To	1916 Kin	1917 Kin	1918 Kin
British India ...	17,861	10,784	16,146
Great Britain ...	119,661	49,260	113,154
France ...	69,183	2,722	3,728
United States ...	119,295	144,116	66,802
Other countries ...	10,994	14,956	17,946
	336,994	221,838	217,776

MINT OIL.—Japanese dementholised is easier, with spot sellers of Kobayashi-Suzuki at 5s. 10½d. to 5s. 9d. The exports from Japan during October 1918 amounted to 23,255 kin, valued at 75,900 yen. During the ten months ended October 31 the exports were:

	1916	1917	1918
Kin ...	334,699	193,624	150,537
Yen ...	779,444	440,139	345,319

OLIVE OIL.—A Spanish official decree authorises the free export of olive oil.

OPUM is quite steady, with Persian 10 per cent. offering on the spot at 70s. to 72s. There is nothing coming forward from Persia, but supplies are expected in a month or six weeks; 200 cases Indian have arrived.

PEPPER is dull and rather lower, with sellers of fair black Singapore at 1s. 1d., Tellicherry at 1s., and Aleppy at 1s. White is also cheaper at 1s. 8d. for Muntok and 1s. 8d. for Singapore.

PETROLEUM-JELLY is offered at 65s. per cwt. for good pale yellow, being cheaper.

PIMENTO is easier, with sellers at 4½d. per lb.

QUICKSILVER.—Purchases can now be made more easily at about 21½ per bottle, and applications for ordinary trade requirements stand a better chance of being satisfied, although supplies are said to be still very restricted.

QUILLAIM.—Whole is obtainable at 75s. per cwt. on the spot.

SACCHARIN meets with little demand, and sellers in some instances are anxious to realise; from 180s. to 200s. per lb., duty paid, is quoted. The Royal Commission on the Sugar Supply has withdrawn the controlled price of tablets. The price of British saccharin in bulk has been slightly reduced. In the drug auction a box of Monsanto was offered, but no bid was made.

SAFFRON is steady at from 45s. to 46s. per lb. on the spot.

SAFROL is lower at 4s. 6d. per lb. on the spot.

SENEGAL is about 6d. per lb. lower, with sellers at 6s. 6d. on the spot for good.

SHELLAC.—At auction on Tuesday 1,941 bags were offered on behalf of the Ministry of Munitions, and 527 sold with

all faults. The sale included fair free TN Orange at 261s. to 275s., very slightly matted 265s., slightly matted to matted 235s. to 247s., blocky red 245s. to 250s., ordinary small free to blocky 230s., blocky 222s. 6d. to 225s., and dark hard block 200s. Privately the price of usual standard TN Orange is from 275s. to 280s. in bags.

TARTARIC ACID is easier at 3s. 9d. per lb. on the spot.

TONKA-BEANS.—Holders of good Angosturas ask 8s. 6d. per lb., and good black Para can be had at 2s. 3d. In auction for three bags of inferior Para a bid of 9d. is to be submitted.

VANILLIN is cheaper, with spot offering at 60s. per lb.

London Drug-auctions.

Commercial Sale Rooms,

Mincing Lane, January 16.

THE drug auctions were resumed to-day after an interval of eight weeks. Supplies have accumulated in the interim, and some of the catalogues were particularly heavy. The tone throughout was extremely quiet, buyers being reserved in view of the downward tendency of prices. There are numerous orders waiting to be executed, and this auction will constitute a basis on which private business can be done. Aloes was quite neglected, although there was a fair selection on offer. Benzoin is extremely quiet, a few sales being made at steady prices. Cascara sagrada was forced off without reserve at lower rates. Cardamoms show no revival in demand yet; seeds, however, sold more freely. Dragon's-blood and gamboge are extremely dull. Honey sold at a considerable and irregular decline, the importers being willing to meet the market. Matto Grosso ipecacuanha is from 3d. to 6d. cheaper. Kola continues neglected. Milk-sugar showed a heavy decline on forced sales. Rhubarb was in better demand; flat high-dried is almost unobtainable. Grey Jamaica sarsaparilla registered a decline of fully 1s., and red native was entirely neglected, although substantial concessions would be made. Tinnevely senna was practically unchanged, and for beeswax there was no demand, Jamaica being obtainable at slightly easier rates than the previous auction.

The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Aloes—			Gamboge	... 26 ...	0
Cape ...	48 ...	0	Gelatin ...	(pcl.) 1 ...	0
Curaçao ...	(cs.) 129 ...	5	Ginger oil ...	(cs.) 2 ...	0
Almonds ...	(bgs.) 100 ...	100	Grindelia rob.	... 25 ...	0
Ammoniacum ...	1 ...	0	Guarana ...	... 2 ...	0
Anise (Sp.) ...	80 ...	0	Gum acaola	... 103 ...	5
Anise, star (Ch.)	61 ...	0	Henna ...	... 151 ...	0
Anise, star, oil	(cs.) 20 ...	0	Honey—		
Anatto-seed ...	147 ...	0	Australian ...	1162 ...	18
Areca ...	32 ...	0	Brazilian ...	77 ...	77
Argol ...	78 ...	0	Californian ...	43 ...	0
Asafoetida ...	25 ...	0	Chilian ...	150 ...	50
Balsam, Peru ...	2 ...	0	Cuban ...	30 ...	0
"Balsams" ...	3 ...	0	Havti ...	140 ...	80
Benzoin—			Jamaica ...	25 ...	25
Palembang ...	28 ...	0	St. Lucia ...	(cs.) 39 ...	0
Siam ...	21 ...	0	Hydrastis ...	1 ...	0
Sumatra ...	245 ...	13	Insect-flowers ...	5 ...	0
Blackhaw-bark ...	8 ...	0	Ipecacuanha—		
Blue flag root ...	5 ...	0	East Indian ...	46 ...	0
Buchu ...	10 ...	0	Matto Grosso	31 ...	17
Calamus-root ...	14 ...	0	Kola ...	266 ...	2
Calumba ...	115 ...	0	Lime-juice ...	(pns.) 28 ...	0
Camphor ...	(ref.) 21 ...	0	Liquorice-juice	(cs.) 129 ...	0
Camphor oil ...	50 ...	0	Liquorice-root	209 ...	0
Candle-nuts ...	104 ...	0	Logwood ext. ...	(brls.) 107 ...	0
Cannab. ind. (African)	18 ...	0	Lycopodium ...	16 ...	0
Do. (Amer.)	10 ...	0	Mastic ...	7 ...	0
Do. (B. I.)	4 ...	0	Menthol ...	5 ...	0
Cantharides (Ch.)	33 ...	33	Milk sugar ...	68 ...	38
Cantharides (Russ.)			Mint oil (Jap.)	10 ...	0
(crate) 1 ...	0		Myrrh ...	36 ...	9
Cardamom oil ...	1 ...	0	Nux vomica ...	2874 ...	0
Cardamoms ...	165 ...	39	Olibanum ...	209 ...	14
Cardamoms, wild	75 ...	0	Orange oil ...	(cs.) 20 ...	0
Cascara sag	382 ...	117	Orange-peel ...	24 ...	0
Cascarilla ...	14 ...	0	Papain ...	8 ...	0
Cassia oil ...	5 ...	0	Peppermint oil	(cs.) 7 ...	0
Celery-seed ...	16 ...	16	Pot. chlor. ...	(kgs.) 3 ...	3
Chamomiles ...	185 ...	0	Quince-seed ...	2 ...	0
Cinnamon-leaf oil (cs.)	10 ...	0	Rhatany ...	10 ...	0
Coca-leaves (Jv.)	10 ...	0	Rhubarb ...	(cs.) 63 ...	21
Cochineal ...	9 ...	3	Saccharin ...	(lb.) 50 ...	0
Colocynth ...	10 ...	3	Sandalwood oil ...	(tins) 27 ...	0
Copaiba ...	20 ...	0	Sandarac ...	10 ...	0
Coriander-seed ...	100 ...	0	Sarsaparilla—		
Cream of tartar	77 ...	0	Grey Jamaica	62 ...	28
Cumin-seed ...	279 ...	0	Honduras ...	28 ...	0
Dragon's-blood	51 ...	1	Lima-Jamaica	41 ...	0
Egg-yolk (pow.)	3 ...	0	Mexican ...	54 ...	0
Ergot ...	48 ...	0	Native Jam. ...	133 ...	0
Eucalyptus oil ...	93 ...	0	Savin-leaves ...	5 ...	0
Fennel-seed ...	120 ...	0	Scammony-root	25 ...	0
Fenugreek-seed	40 ...	0	Senna and pods—		
Galangal ...	15 ...	0	Alex. ...	81 ...	*3
Galls ...	60 ...	0	Tinnevely ...	529 ...	35

* Sold privately.

	Offered	Sold		Offered	Sold
Senega ...	15	0	Valerian...	6	0
Serpentary ...	5	0	Wax (bees)—		
Squill ...	173	*19	Abyssinian ...	508	0
Stavesacre ...	8	0	Cuban ...	50	0
Strophanthus ...	21	0	East Indian ...	81	0
Tamarinds ...	164	0	Jamaica ...	33	0
Tonka-beans ...	9	0	Mozambique...	3	0
Turneric ...	411	0	Rangoon...	393	0
Turtle, dried ...	(cs.)	2	West Indian...	4	4
Uva ursi leaves ...	6	0	Wax, veg. (Jap.)	689	0

* Sold privately.

Drug Auction Terms and Conditions.

The following are the terms and conditions of sale for the drug auctions commencing with that of January 16, 1919:

(1) All goods to be sold on actual, average, or estimated landed tares or shipping tares as now customary. (2) Draft and tret to be allowed as at present. (3) All goods to be sold without discount. (4) Prompt to remain Saturdays; insurance to be covered by the sellers until the prompt day. (5) All goods on show to be reweighed, those not on show to be sold on actual landing weights, but all goods landed over three months to be taken with average or actual reweights, such reweights to carry for nine months, with the exceptions as per the following agreed list, which are always to be sold reweights. Rehousing for buyers' account. Aloes: Curaçao, Cape, Socotrine, Zanzibar. Ambergris. Balsam: Canada, copaiba, Peru, tolu. Camphor: Crude, oil. Cascara. Chamomiles. Cantharides. Cassia fistula. Castor oil, if packages landed in bad condition. Castorum. Civet. Cod-liver oil: Landing gauges, but all goods landed over three months to be taken at regauges, such regauges to last for nine months. Cuttle-fish. Dragon's-blood. All essential oils in tins, except peppermint oil. Ergot. Eucalyptus oil. Gamboge. Gentian. Guaza. Hydrastis. Honey. Ipecacuanha. Junipers. Lime-juice: Landing gauges, but all goods landed over three months to be taken at regauges, such regauges to last for nine months. Musk. Olive oil. Opium. Senega. Tonquin-beans. Tragacanth. Vanilloes.

ALMONDS.—A parcel of 100 bags bold Alicante sweet, returned as sound, sold without reserve for account of whom it may concern at from 12s. to 126s.; wet country-damaged sold at 101s. to 112s. 6d.

ALOE was slow of sale; 40 boxes of Curaçao offered and 2 sold at 129s. for good fair liver, and 65s. for fair capey. 43 cases of Cape aloes were bought in, fair firsts being retired at 56s., a bid of 53s. being refused.

BENZON was extremely slow of sale, but is still firmly held. Five cases of ordinary almondy Sumatra seconds sold at 10l. 10s. per cwt., and for four boxes of good fair seconds 11l. 15s. was paid. Four cases of good thirds sold at 8l. 10s. Palembang was retired at 5l. 15s., and for 21 cases Siam 45l. was asked for good small almonds in block, and 38l. for blocky pea and bean size.

BUCHU.—A parcel of 10 bales offered and was bought in, including round, part yellowish and slightly stalky, at from 7s. 6d. to 7s. 9d., good green but stalky 8s. 3d., yellowish to fair stalky longs 6s. 6d. to 6s. 9d.

CALUMBA.—Privately spot sales have been made at 300s. per cwt., and to arrive 150s. c.i.f. is quoted. In auction 15 bags of medium to bold native washed (per parcels post) were limited at 300s. per cwt., and for a further 100 bags part wormy 320s. was asked.

CANTHARIDES.—A lot of 33 cases Chinese sold without reserve for account of whom it may concern with all faults (the parcel being more or less damaged by fire and water) at from 1s. 11d. to 2s. per lb. One crate of slightly dusty Russian was retired at 12s. per lb.

CARDAMOMS.—No pods were disposed of, but 35 bags of fair Bombay seed sold at 2s. 6d.

CASCARA SAGRADA.—A lot of 117 bags fair sold without reserve at from 151s. to 159s. per cwt. Privately spot sales have been made at 165s., which is a reduction of about 25s. on previous prices.

CELERY-SEED.—Sixteen bags of country-damaged sold at from 20s. to 41s. per cwt.

COCHINEAL.—Three bags of fair silver sold at 3s. 6d. per lb.

COLOCYNTH.—A single bale of fair Syrian apple sold at 1s. 9d. per lb. subject, and for two bales of ordinary pulped 11d. was paid without reserve.

CREAM OF TARTAR.—A lot of 20 casks Spanish analysing over 99 per cent. was bought in, no bids being obtainable even at 295s.; a further lot of 57 cases was retired at 400s., a suggestion of 380s. being made by the broker.

DRAGON'S-BLOOD is more plentiful but slow of sale, a single case of mixed dull part reboiled lump selling at 15l.

ERGOT.—In auction 48 bags of very slightly wormy Spanish were limited at the higher figure of 8s.

HONEY showed a further considerable decline of from 20s. to 30s. per cwt., particularly in the case of 25 barrels

Jamaica, which sold at from 97s. 6d. to 100s. for brown set; the decline in other descriptions was not so pronounced: 95 casks Hayti sold at 143s. to 150s. for nice pale set, 130s. to 132s. 6d. for good palish, and 120s. to 125s. for dark amber to darkish set; 77 cases Brazilian sold at 130s. to 140s. for good to fine pale set. Eighteen cases dull liquid amber Australian sold at 117s. 6d. to 121s.; and for 50 kegs Chilian 100s. per cwt. for fermenting yellow. A large quantity of Australian was bought in.

IPECACUANHA was from 3d. to 6d. easier. At the opening of the auction a single bale of Matto Grosso sold at 10s. 6d. for good bright, but towards the close 17 bales sold at a slight reduction, 10s. being paid for fair sound bright, 9s. 6d. to 9s. 9d. for ordinary, part sea-damaged and mouldy while for grease and water-damaged from 8s. 7d. to 9s. 3d. was paid. A lot of 46 bales of East Indian was bought in, there being no buyers. Fair sound was obtainable at 9s., the bulk of the parcel being water-damaged the broker intimated that he would begin at 8s., various bids of 7s. 3d. to 7s. 6d. being refused.

KOLA was plentiful but neglected. A single bag of fair bold halves St. Lucia sold at 8d. per lb. African quarters were more plentiful at from 9½d. to 10d. for fair sound.

LYCOPodium of good quality was obtainable at 5s. 6d. per lb.

MILK-SUGAR.—A parcel of 38 packages U.S.P. lying in Manchester sold without reserve for account of whom it may concern at from 1s. 1d. to 1s. 3d. per lb., mostly at the higher price. A further lot of 30 barrels U.S.P. was retired at 2s. 6d.

MYRRH was slightly firmer, nine bags of small bright pale sorts selling at from 17l. 5s. to 18l.

OLIBANUM.—Fourteen bags of sea-damaged and blocky to part blocky dusty siftings sold at 30s. per cwt.

POTASH CHLORATE.—Three kegs of London ground from pure crystals sold without reserve at 19s. per cwt.

RHUBARB was in rather more demand at about steady prices, the sales including 13 cases of Canton pickings at 2s., three cases of medium to bold round Shensi with three-quarter good pinky fracture at 2s. 9d., also flat ditto at 2s. 8d. to 2s. 9d. Two cases of bold round Shensi, slightly wormy, sold at 1s. 8d. subject. A specimen piece of Canton root offered by Slann & Davies, weighing about 43 lb., said to be the finest ever shown, sold for 30s. (all at). The piece in question was 23 in. long, the circumference being 13 in.

SARSAPARILLA was again offered in excessive quantities, consequently buyers held off. About 23 bales of grey Jamaica sold, including fair to good sound at 3s. 8d. to 3s. 10d. (a reduction of about 1s. 2d. to 1s. 4d.), and for sea and water-damaged and part mouldy from 2s. 6d. to 3s. 6d. was paid; very coarse badly sea-damaged, 2s. No red native was disposed of. From 1s. 6d. to 2s. will buy as to quality. Lima Jamaica was limited at 3s. 6d., Mexican at 3s. 9d., and Honduras at 4s. 6d. For the latter a bid of 3s. 9d. is to be submitted for three bales.

SENNA was steady, the chief demand being for Tinnevely pods, which sold at from 3d. to 3½d. per lb., 4d. being wanted for the best lots. A few bales of small to medium yellowish leaf sold at 4d. subject. Of Alexandrian, three bales fair siftings had been sold privately. Fair pods were held at 1s. 9d.

TAMARINDS.—West Indian are becoming more plentiful; 105 barrels of fair Barbados offered in bond, and were held for 90s., and a further 59 packages of West Indian descriptions of fair qualities were limited at 100s.

VALERIAN.—A single bag of weak flavoured Spanish was retired at 350s., and for five bags good Indian (*Valeriana Wallichii*) 400s. was wanted.

WAX, BEES', was quite neglected, good Jamaica being obtainable at 12l. per cwt. and Mozambique roll of good colours at 9l. 12s. 6d. to 9l. 15s. Of West Indian three small packages sold at from 8l. 17s. 6d. to 9l. for yellow and brown.

St. Lucian Exports.

Among the exports from St. Lucia during the past three years were the following:

	1915.	1916	1917.
Molasses and syrup ...	gal.	17,000	108,107
Cacao ...	... cwt.	18,478	14,575
Concentrated lime juice ...	gal.	17,834	16,823
Raw lime juice ...	...	5,182	1,280
Distilled lime oil ...	...	363	305
Hand-pressed lime oil ...	...	385	294
Honey ...	lb.	29,338	45,588
Beeswax ...	...	274	303
Nutmegs ...	...	2,719	838
Mace ...	...	518	62
Vanilla ...	...	342	573
Kola ...	lb.	—	1,920
Bay oil ...	gal.	115	606
Logwood ...	cu. ft.	12,150	tons 790
			tons 735



Some More Problems.

SIR,—If there really is some arrangement pending with the Apothecaries' Hall, then I should welcome it, because the Health Ministry will certainly insist upon some such unification. In 1900 the "Hall" was qualifying 100 persons a year and the Pharmaceutical Society 500; now the positions are exactly reversed, and even a spurt of war qualifications will not help to redress the balance. The future policy of the Government will see perhaps 1,000 "Hall" women per year absorbed into hospitals, clinics, and dispensaries. But our trade will continue to be greater than ever so long as we don't again revert to Free Trade. This absorption will leave us just as badly off for labour as we are now, because the new examinations do not deal with the actual business of a retail druggist. The Pharmaceutical Society is quite hopeless; a more futile and spineless lot of men have never been got together in any governing body in the past history of Great Britain: certainly never in the history of the Society. The great body of our trade is composed of men who entered it twenty-five to forty-five years ago, with the expectation of an assured quasi-professional position before them. One-third are keen business men, who talk "hot air" at meetings, but who are keener in buying patents and making big profits than Hugo Wolff is himself. Two-thirds are "one-man businesses," and enduring the most frightful white slavery. Yet they will stubbornly stick it to the last ditch, being led astray by glib-tongued men, "who deceive the heart of the simple by good words and fair speeches." The labour problem is not the only one which has been shamefully mismanaged by the Pharmaceutical Society; the unfair methods of the Sale of Food and Drugs Act inspectors ought to have been tackled twenty years ago by the Society, instead of waiting for the Chemists' Defence Association to redress the unfairness even partially. The recent Epsom salts cases are examples of gross unfairness. Liquor arsenicalis is 1 per cent., which equals 10,000 per million; yet men are hauled up in a police court (to take their turn with common thieves and drunkards) because in the process of manufacture it is very difficult to remove arsenic below 16 per million. No attempt is made to prove our real knowledge by telling magistrates that arsenic occurs in nature as a metal along with iron and tin, and is most difficult to separate from these other metals. You might just as well summon a grocer for selling tea which had a coffee flavour (coffee pervading a shop above all other smells), or summon a butcher for cutting up beef with a hammy knife. But why go on? We don't need to put up with these indignities; we could get them removed; but such action would smother trade, and hence hundreds of chemists refuse to take part in civic affairs, fearing the humiliation they may easily be put to. And let it go at that.

JAY MACK.

The Unqualified's Point of View.

SIR,—Your correspondent, "A Chemist and Pharmacist" (*C. & D.*, January 11, p. 55), makes the charge against drug-store proprietors that they assume and exhibit the legal title of chemist. I venture to say that no member of the Incorporated Society of Pharmacy and Drug Store Proprietors would be guilty of such foolish conduct as would bring him speedily within the long arm of the law. The members of the P. & D.S.A. have to a man served a regular apprenticeship with a qualified chemist. Many of their number have also served as dispensers to surgeons and doctors, and as a class will compare favourably with qualified chemists, so far as general knowledge is concerned in respect to carrying on the business of pharmacy proprietors. Your correspondent further charges the unqualified in business with being unable or unwilling to face the Pharmaceutical Society's examination. The truth is that they are unable to do so owing to the selfishness and greed of masters in not allowing time for study for the examinations during apprenticeship and assistant days. I am referring now to pre-war days, when most of the chemists' shops were kept open excessively long hours, Sundays included. What time for study was left to a youth who was really anxious to qualify when he was employed fourteen or even fifteen hours a day in a shop? Very few masters took a kindly interest in their apprentices and assistants, so far as his future prospects were concerned. The only alternative was for the young man to withdraw altogether or a time from business and enter as a student at one of the colleges of pharmacy; but the difficulties were

apparently insuperable, for the reason that the young man had not the means at his disposal to pay the college fees, and further, in very many cases needy parents were somewhat dependent on his scanty earnings immediately he became an assistant. Many young men did make brave attempts to prepare for examination, and went so far as to submit to the unnecessarily severe ordeal, and it was not to be wondered at they failed to satisfy the examiners in the more scientific parts of the test. The young man is disheartened, but not dismayed; he goes back as an assistant, continues working very long hours, gains additional experience, and later on, seeing no chance to qualify, commences in a humble way as proprietor of a drug-store. Probably 95 per cent. of the men who commenced for themselves have done quite as well in business as their qualified neighbours, and they are bound to succeed owing to the fact that they are men of ripe and sound experience—the kind of experience that brings respect from customers and financial success to the drug-store proprietors. Coming now to the charge which your correspondent makes—namely, that drug-store men have sprung from errand-boys—I venture to say that not a few pharmaceutical chemists, chemists and druggists, and even doctors, were in early life errand-boys. I am well acquainted with an eminent medical man who commenced life as a butcher's errand-boy. Referring again to the position and standing of drug-store proprietors, their position in the world of business is quite regular and legal. Mr. Masterman stated in the House of Commons during the passing of the National Insurance Act that drug-store proprietors were performing useful service to the community in supplying the public with drugs and chemicals, providing they did not assume the title of chemist and refrained from selling scheduled poisons. The drug-store man to-day is a public necessity; their businesses are generally of a mixed and heavy description, after the manner of the Irish registered druggists—practically no dispensing, no scheduled poisons or patent medicines containing scheduled poisons, but supplying a thousand and one articles which the public are daily needing, many articles of such a nature that qualified chemists reluctantly stock and supply. I think the time has now arrived when the Pharmaceutical Society should be prepared to support a Bill, which may in the near future be submitted to Parliament, for the registration of drug-store proprietors. The drug-store proprietors claim to be put in exactly the same position as the registered druggists of Ireland. The time is ripe for such a measure becoming law. Lastly, I am sorry your correspondent has made charges against drug-store men in defence and for the protection of qualified men back from the war. Drug-store proprietors have made great sacrifices; many have had to sacrifice lucrative businesses, and others have lost limbs and otherwise been disabled, and some have made in their country's interest the greatest sacrifice of all.

HISTORICUS. (11/1.)

Insurance Dispensing Profits.

SIR,—"*Devon*" (*C. & D.*, January 11, p. 55), in calculating profit, forgets one aspect. Fifteen per cent. may be his average working expenses; the actual cost of working expenses for Insurance dispensing is much higher. Taking one of the "flu" months last year, the following may illustrate my meaning:

Turnover, 307*l.* 3*s.* 5*d.*, plus value of Insurance scripts, 20*l.* 7*s.* 6*d.*

Total turnover, 327*l.* 10*s.* 11*d.*

Time occupied in dispensing, preparing solutions, etc., 33½ per cent.

Gross profit averages, 33½ per cent.

Working expenses, 15 per cent. = 49*l.* 2*s.* 6*d.*

Cost of working expenses on 15 per cent. basis on value of Insurance scripts, 3*l.* 1*s.* 1½*d.*

Cost of working expenses on 33½ per cent. of working-hours basis—i.e., 33½ per cent. of 49*l.* 2*s.* 6*d.*—16*l.* 7*s.* 6*d.*

Hence to make 6*l.* 15*s.* 10*d.* gross it costs 16*l.* 7*s.* 6*d.* for working expenses. It may be argued that the time, if not thus occupied, would not bring in any revenue. Insurance dispensing has to be done in the busiest portions of the day, however, and the modern business pharmacist's day is all valuable. A pharmacist who does his own dispensing is behind the scenes at the very time he should be reaping his harvest at the counter. If a dispenser is employed a much larger wage has usually to be given to get a man competent to undertake the whole of this side of the business than would otherwise be required. There are no profits on Insurance dispensing: it is all loss. If every pharmacist would calculate the extent of his loss there would not be many left on the panel. I have proved that turnover is in inverse ratio to the amount of Insurance dispensing. When scripts fell 50 per cent., turnover nearly trebled.—Yours faithfully,

OUT-FOR-A-LIVING PHARMACIST. (13/1.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Monthly Accounts.

A. J. K. (20/6) writes: "In my many calls I find among my customers a desire that firms should render accounts on the first of each month, due, say, on the tenth, for discount, being for all goods purchased during previous month."

Demobilisation Hint.

R.A.M.C. (19/14) writes: "May I make the following suggestion? Any pharmacist requiring the services of a qualified or unqualified man should make an application on his business memo. to the company officer. There are lots of us in my company who could probably get away with an application from a pharmacist, whether previously employed by him or not."

Cod-liver-oil Plaster.

R. P. (22/98) writes: The following recipe from my commonplace book may suit your inquirer who recently asked for a formula for cod-liver-oil plaster:

Emp. plumbi	...	...	300 parts
Cerae flav.	...	...	125 parts
Ol. morrhuae	...	...	175 parts

Misce.

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

W. R. D. (14/12).—USE OF RED CROSS.—The Geneva Convention Act, 1911, which prohibits the use of the red cross in trade or business, is still in force.

W. T. F. (11/56).—PASSPORTS FOR FRANCE are not yet granted very freely, but you should apply for particulars at the Passport Department of the Foreign Office, Whitehall, London, S.W.

W. H. B. R. (17/30).—SPIRIT-DUTY REBATE.—The rebate allowed to chemists who employ spirit in the manufacture of medicines is 16s. 9d. per proof gal., made up of 1s. 6d. gal. immature-spirit rebate and 15s. 3d. gal. the new duty imposed in the last Finance Act. You will, however, bear in mind that not every tincture is classed as medicinal by the Board of Customs and Excise. A careful note has to be kept of the preparations made with the spirit upon which the chemist is claiming rebate of duty.

Want to Know (16/26) asks whether he is bound to sell any article exhibited for sale in his shop if requested to do so. [The mere fact that a shopkeeper exhibits goods in his shop does not render him legally liable to sell them. Before he becomes bound to supply an article there must be a definite contract for its sale, as the result of an offer on his side and an acceptance on the part of his customer. In our view the offer of an article for sale by a shopkeeper might well be "implied" from the circumstances—e.g., the exhibition of the article "price-marked" in the shop window. If a customer accepts an implied offer of this nature by tending the price of the article he is in our opinion entitled to be supplied with the article.]

Nomen (11/69); G. B. K. (171/13); G. T. (13/65).—REGISTRATION OF A TRADE-MARK.—This is effected at the Patent Office, 25 Southampton Buildings, London, W.C., the cost (if the mark is accepted and there is no opposition) being 30s. Application for registration is made on a form (T. M. No. 2) which costs 10s., and is obtainable through any Money Order Office—the chief offices keep the forms in stock. The class for pharmaceutical preparations is Class 3, for perfumery and toilet articles, Class 48. The chief difficulty in the case of a word mark is to satisfy the Registrar that it complies with the conditions laid down in the Trade-marks Act, 1905. It is best to make first a search at the Patent Office to see if there is any word already registered resembling the one which it is desired to register. The Registrar will do this for a fee of 10s. (Form T. M. No. 28). It is in this part of the proceedings that a trade-mark agent is useful, as his experience enables him to advise his clients regarding the chances of the acceptance of particular words, and he is also in a position to make searches if these are needed.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. R. C. (195/2).—ECZEMA-CREAM.—"P.F." or C. & D. Diary, 1904, may be quoted as the reference for the purposes of the Medicine Stamp Acts.

Acid. salicylic	...	...	9ij.
Resorcin	...	...	9ij.
Calamini	...	...	3ij.
Ol. cadini	...	...	3ij.
Zinci oxidi	...	...	3iv.
Pulv. amyli	...	...	3ss.
Paraff. moll. flav.	...	...	3j.
Adipis lanæ	...	...	3iss.

Misce.

L. S. (Porto) (8/35).—SANITARY BLOCKS.—These are made by melting naphthalene and pouring it into moulds. Sometimes the naphthalene is coloured blue or red with an aniline dye, and some varieties are mixed with a proportion of sawdust with the object of subdividing the naphthalene. The wire hooks by which the blocks are suspended are stuck into the naphthalene before it cools.

Red Cross (179/28).—(1) INFANTS' CARMINATIVE.—The following is the formula you require:

Sodii bicarb.	...	...	3iss.
Sodii brom.	...	...	3vj.
Spt. anisi	...	...	3ij.
Syrupi	...	...	3XL.
Aq. anethi	...	...	3XL.
Aq. carui	...	...	3XL.
Aq. menth. pip.	...	...	3XXX.

Misce.

(2) FEVER-DROPS:

Vin. antim.	...	...	3j.
Vin. ipecac.	...	...	3j.
Liq. ammon. acet. aa.	...	...	3j.
Spt. aether. nit.	...	...	3j.
Aq. dest.	...	...	3j.

Misce. Dose: 3ss. to 3ij.

W. M. A. (20/58).—We will make inquiries regarding the reagent to which you refer.

T. J. M. (259/44).—"Pharmaceutical Formulas" (C. & D. Office, 10s.) contains information regarding the manufacture of unofficial pharmaceutical preparations.

T. W. F. C. (18/27).—TINCTURE STANDARDS.—The table devised by Mr. F. W. Fletcher was printed in the C. & D., July 7, 1900, and was afterwards issued printed on a card. The standards referred to were those applicable to the preparations of the British Pharmacopœia, 1898. The other paper you refer to we have no record of, but Mr. E. W. Lucas, C.B.E. (John Bell, Hills & Lucas, Ltd., Tower Bridge Road, London, S.E. 1), would doubtless give you the reference you require.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Jan. 15, 1869.

Spoon Measurement.

An article by Mr. M. J. Ellwood states: "I have been enabled to ascertain with tolerable accuracy the contents of about fifty tea, table, and dessert spoons, measured in four towns in different parts of England, and the results are certainly remarkably dissimilar. The spoons in use many years ago doubtless contained what they now only theoretically contain; but for some time a gradual increase of size has been progressing, in much the same ratio as medicines have been increasing in strength and concentration, so that where formerly a patient took one, two, or four drachms for a dose, he now more frequently takes two, four, and six or eight drachms. . . . The results of my experiments show how a dose, intended by the prescriber for sixty minims, may be augmented to eighty, ninety, or even a hundred-and-twenty, by the unsuspecting, but too confiding patient. There are other important facts connected with this subject, but which I leave to more competent pens than mine to treat of, and I trust that the little I have written may be the means of inducing others to take up a subject containing so many anomalies and requiring great reforms." Newcastle-on-Tyne, January, 1869.

PELMANISM FOR THE PHARMACIST.

The Pelman System of mind and memory training is for all sorts and conditions of men, but it would be difficult to name a class more fitted to benefit by the training it gives than the pharmacist.

In the first place he has the intelligence to appreciate its value and to draw full benefit from it. In the second he needs just those qualities which it is designed to strengthen, and, thirdly, he has in his daily routine ample opportunity for its exercise.

The career of the chemist may be conveniently divided into three periods: (1) His apprenticeship, including his service as junior. During this part of his life a considerable part of his energy is, or should be, devoted to study or the qualifying examination. He then becomes (2) a responsible assistant, capable, if necessary, of running the pharmacy single-handed. Finally he becomes (3) a proprietor, or manager, taking complete charge.

It is, therefore, convenient to consider Pelmanism in connection with each of these three classes, but obviously in some respects practically the same conditions apply throughout.

PELMANISM FOR THE STUDENT.

Only an acquaintance with the System is required to satisfy any reasonable person that the methods taught are invaluable to the student of any class whatever. For one thing Pelmanism insists on the importance of accurate observation; the difference this will make will probably mean that the scientific education received will be a permanent acquisition instead of a mere cram. This tendency will be increased by the added interest which Pelman methods give to any subject.

Apart from its other aspects the Minor may be regarded as a test of memory. Here again Pelmanism helps, and helps decisively, but it is no mere set of dodges and tricks, the essential thing about Pelmanism is that it is founded on the principles of psychology, that it works entirely on natural lines. But at the same time it teaches many little ways of economising time and brain power. For example, it is necessary, or at all events exceedingly useful, to carry in the mind a considerable number of figures, atomic weights, metric equivalents, etc.; here Pelmanism will indicate the easiest methods of learning them in such a way that they will stay in the mind, if not for ever, at least for a very long time. This is a point of considerable importance because a man with his eye on the Minor subjects may say that he has no time for other study, that he has enough in hand already. This idea is founded on a fundamental error. In practice it will be found that many of the prescribed exercises may be adapted to form part of the regular studies, and others may be fitted in with the pharmacy duties; in each case the results will be that the work will be better done, and at the same time utilised as training for the mind.

Quite apart from study, Pelmanism will hasten the transformation of the junior into the senior by developing a capacity for independent thought, with its corollary, self-reliance. The benefit conferred by a Pelman training is so temporary a lift, but a possession which is going to pay interest all the time, a possession all the more valuable because it cannot be lost. The following lines show its application to the junior's prospective career.

PELMANISM FOR THE ASSISTANT.

Whatever it may have been in the past, pharmacy to-day is a business, and the successful pharmacist must be a wide-awake business man. This means that something must be added to the examination subjects if a man is to realise fully his potential earning power.

One of the most important things an employer looks for in an assistant is salesmanship: it pays him to keep the man who makes two sales grow where one grew before—and to keep him he will be willing to pay him well. The Pelman Course does not teach salesmanship as such, but it teaches what is of far greater value, the psychological principles on which the art of salesmanship is based. Pelmanism is no cut and dried system with one method to meet all conditions: it gives the student the underlying principles and shows him how to apply them to his own particular problems. A training of this kind cannot fail to make a man of greater value to his employer, because the results can be seen, and they are results having a cash value.

Few things gratify a customer more than to have his name and his preferences remembered, not ostentatiously, but as a matter of course: it is a subtle form of flattery. Most assistants will declare that it is too much trouble, but it is not if done in the right way. And that is just what Pelmanism means, the *right way* for all operations of the mind. To exaggerate the importance of this is quite impossible because practically the whole of life, all that is of importance, is a matter of mental action.

This may sound almost too good to be true, but the Pelman Institute invites everyone to make the fullest investigation before taking any action.

PELMANISM FOR THE PROPRIETOR.

It must be admitted that some men succeed by what seems to be luck, but in the great majority of instances it will be found that the man who "gets there" is the man with originality, the man who has thought out some aspect of his business better than his neighbours.

Everyone may not admire Sir Jesse Boot, but there is no denying his success. Thirty years ago he saw the possibilities of using cut-prices for patents as a bait to secure other business. Any chemist might have done it—in one or two instances they did—but that was the idea which gave him his initial advantage. When it had served his purpose he dropped it, made his peace with the P.A.T.A., and directed his efforts in other directions. He thought the thing out for himself and his success is the result of his originality.

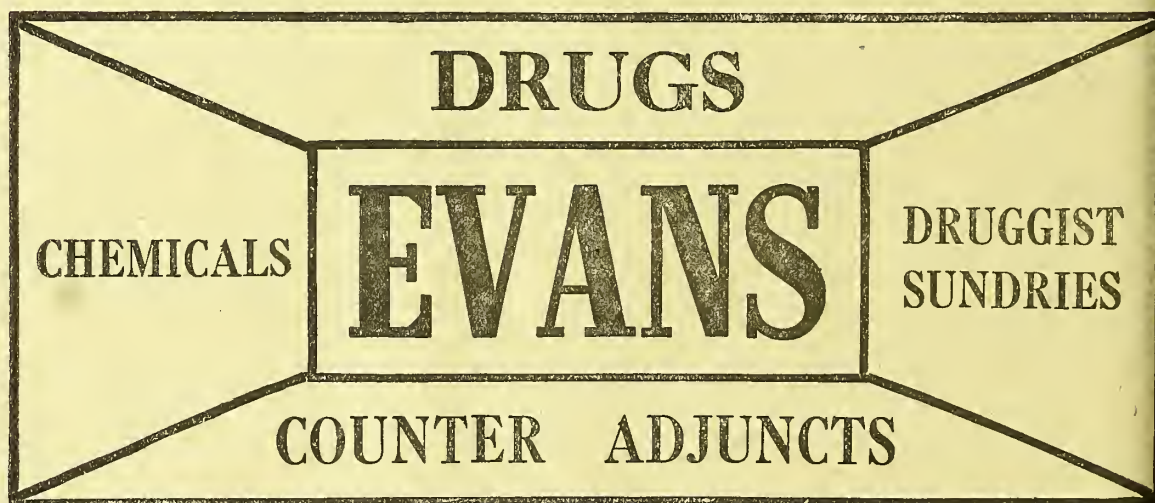
Now, it is not claimed that Pelmanism can give originality, but it can and does enable a man to develop his innate powers—powers which would otherwise lie dormant. Many a man has to be content with comparative failure because he has not given his latent capacity the opportunity for expansion, and this for the simple reason that he has not suspected its existence.

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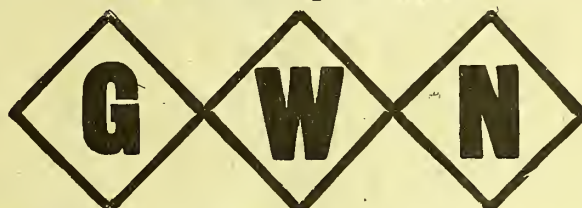
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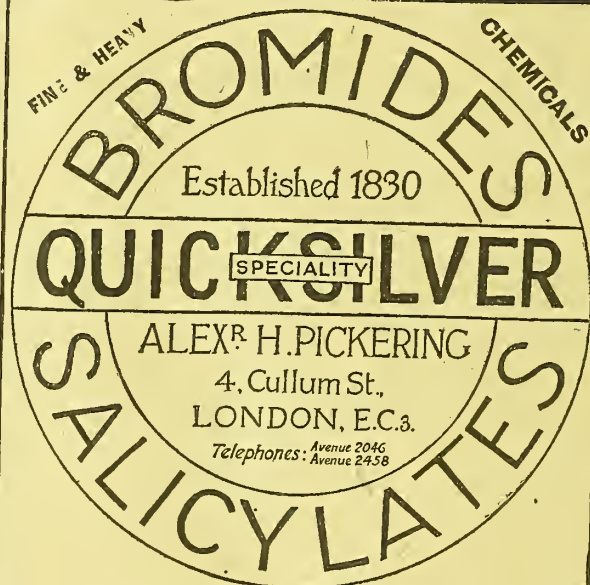
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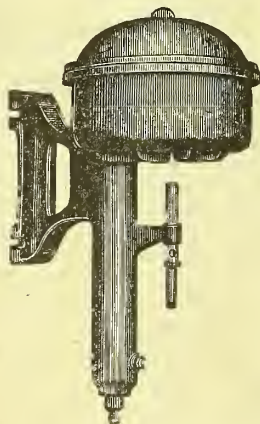
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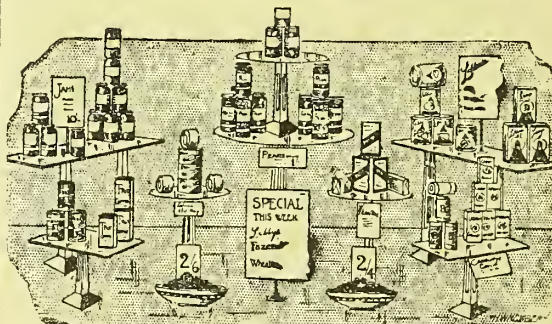
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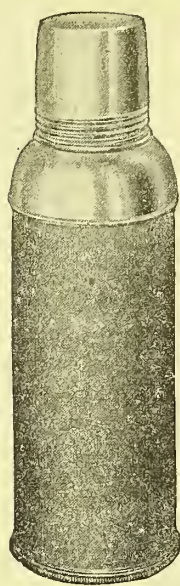
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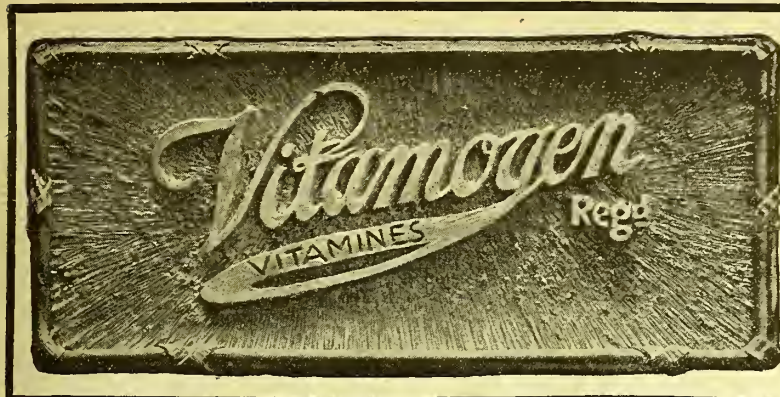
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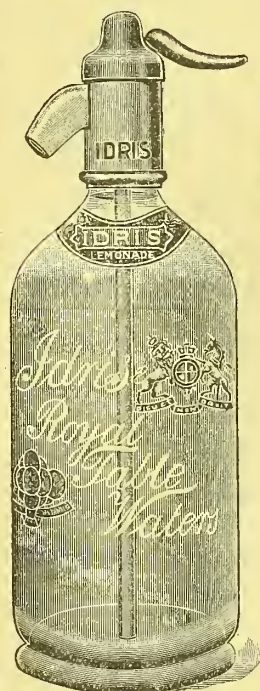
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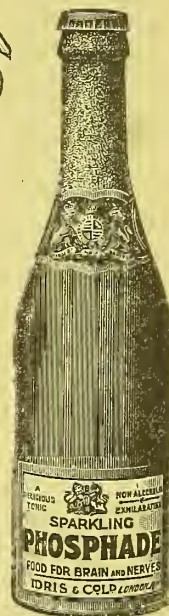
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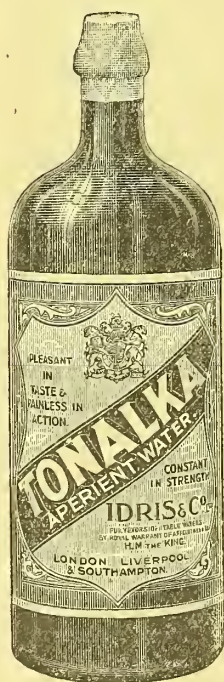


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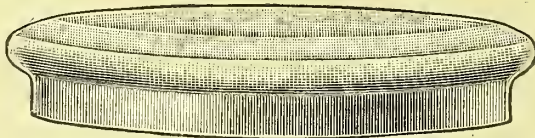
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Court Plasters, Toothache Plasters, Corn and Bunion Plasters, Mustard Leaves, &c.

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Waterdressing, Fastedge, Calico, and Flannel Bandages, Elastic Web,
Crepe Velpeau, and Plaster of Paris Bandages.**THE LEICESTER "VARICO" LEG BANDAGE.**

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"HYDRION" A Powerful Antiseptic Tablet

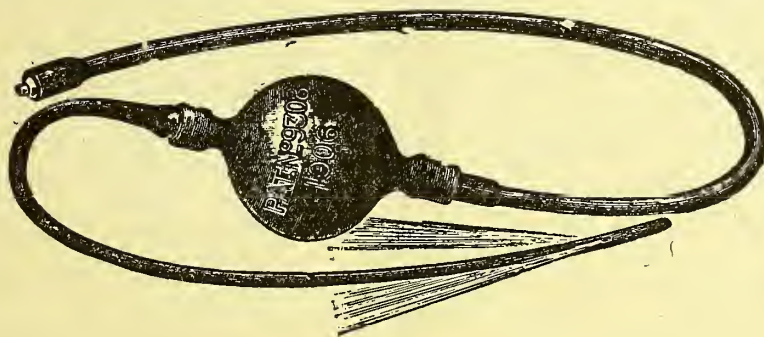
quickly soluble in water: for
Dressing Skin Wounds, Lacerations, Compound Fractures, Burns, &c.

The formula of an eminent surgeon, obtained after years of scientific research and clinical application. "Sepsis," where directions are faithfully carried out, is unknown. See LANCET, Dec. 19, 1914, pp. 1438 *et seq.*

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The "NEW CENTURY" Urethral Syringe.

Price 3/6
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Discount.



Eng. Patent
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Patented at Home
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CHIEF POINTS OF VANTAGE:

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| (1) Simplicity and comparative comfort in use. | (4) Remarkable absence of distress in use. |
| (2) Ease of complete sterilisation. | (5) Quickness in controlling discharge. |
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Each tablet makes half a pint of non-irritating injection.

Glass Tubes, containing 12 tablets, price 6d. each tube.

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AN IDEAL ANTISEPTIC DEODORANT DISINFECTANT.

Contains 20% more Cresol than any other similar preparation.

Superior to any German Preparation.

Surgical Instruments can be safely sterilised and disinfected in a few seconds without danger
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MANUFACTURED BY

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3 tons NEUTRAL FAT - 126/128 M.P.

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(A Few only).

18/- 20/- DOZ.

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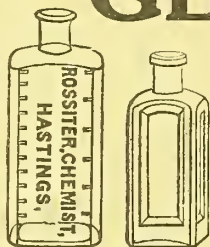
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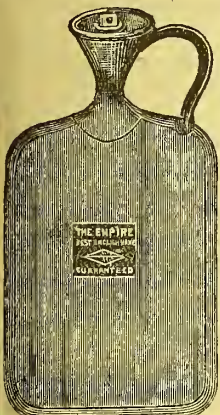
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Heavy weight each		4 0	4 4	4 8	5 0	5 6	6 0	6 3	7 0
Light " " " " " "		3 10	4 2	4 6	4 9	5 3	5 9	6 0	6 6
Covers, scarlet or grey plush " "		1 4	1 6	1 9	1 0	2 0	2 6	2 8	3 0

Fig. 957.—Side Handle.

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none are genuine.
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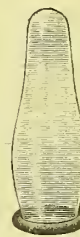
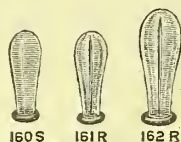
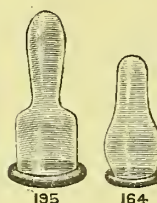
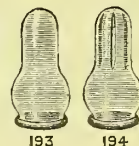
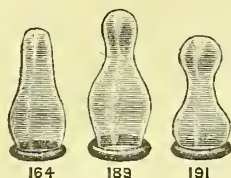
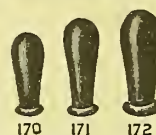
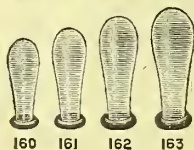
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Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (makers or vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

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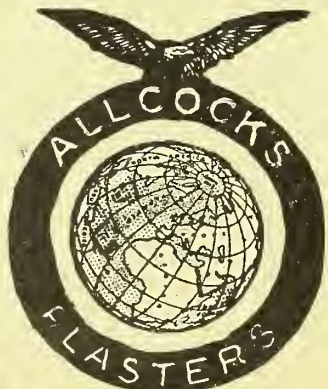
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3.—LONDON.—Old-established good-class Retail and Dispensing business; returns upwards of £2,000; scope for development; well-fitted shop and comfortable residence; no near opposition; price to be arranged equitably.

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6.—LONDON, N.W.—An exceptionally good and reliable Business in select residential locality; returns £2,219; net profit over £600; terms, valuation of stock and fixtures, and sum for goodwill to be agreed equitably; vendor retiring.

7.—BAKER'S STREET STATION (15 Minutes from).—Good-class Business; Retail and Dispensing; net profit £600; well-appointed shop, nicely fitted and fully stocked; valuation terms could be considered, or lump sum offer.

8.—HOME COUNTY.—Modern Pharmacy, chiefly ready money; situate in centre of good market town; returns average between £3,000 and £4,000; well-appointed shop and good residence; terms to be agreed equitably.

9.—GLOS. (Death Vacancy).—Good-class Retail and Dispensing Business; established 1826, and held by the late owner upwards of 50 years; returns, present rate, between £1,200 and £1,300; scope for extension under energetic management; rent £55, which includes residence; no reasonable offer refused.

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LONDON, S.W.—For immediate disposal, old-established Cash Retail; working-class district; suit unqualified; returns average £25 per week; rent (inclusive) £41 per annum; same ownership 19 years; price asked £225 cash; valuation terms; residential, or lock-up shop; qualified man could soon double returns. Apply 215/13, Office of this Paper.

MANCHESTER.—For sale privately, through ill-health, double-fronted large Shop; old-established; splendidly fitted; valuation, stock and fixtures. Full particulars and inspection to genuine buyer. Apply 227/40, Office of this Paper.

MANCHESTER.—Consulting, Prescribing and Recipe, and Goodwill of the celebrated Patent Medicine known as Hoffner's Balm. For disposal, the old-established Business of J. H. H. H. & Co. (J. Hoffner), situated 122 Portland Street; owner retiring after 43 years' occupation; an exceptional opportunity for a young, energetic man with moderate capital.

MANCHESTER DISTRICT.—High-class Retail and Dispensing business for disposal; cash returns £900, increasing; price required £450; part of purchase money could remain over to suit purchaser's convenience. Address 233/3, Office of this Paper.

MILFORD, SURREY.—For immediate disposal, owing to death of proprietor, very profitable Cash Retail Pharmacy; only one in locality; returns over £2,000, increasing; good stock and well-fitted premises; leasehold; low rental; 10 years yet to run; audited accounts from commencement in 1914. Fuller particulars on application to Turner, Oak Bank Cottage, Milford, Godalming, Surrey.

NORTH WALES.—A good old-established Retail Business for immediate disposal; double-fronted corner position; easily and cheaply worked. Apply 222/30, Office of this Paper.

SHEFFIELD.—Cash Retail; middle class; returns £1,400; house attached; low rent; genuine concern. Apply "T," 505 Manchester Road.

SOUTH WALES.—Drug Stores, old-established, in populous working-class district; profitable business, with wine licence; takings, over £1,000, could be increased under qualified management; recently valued at £630; will accept cash £500. "Drugs" (214/21), Office of this Paper.

SOUTH YORKS.—For immediate disposal at valuation, very profitable Retail Business on main road of large city; present returns £1,700; good fittings; lock-up shop; double-fronted corner position; many years in present hands; easily and cheaply worked. Apply 228/2, Office of this Paper.

BUSINESS in busy market street in London, East; doing between £500 and £600 per year; could do £1,000 under qualified man; N.H.I. also; inspection invited. Offers to 232/34, Office of this Paper.

BRETT & CO.

Transfer Agents & Valuers,

73 LAUREL ROAD, LEICESTER.

£2,000 Returns (nearly). Death Vacancy. Midlands. Good class country unopposed retail. No heavy trade or N.H.I. Good house and convenient premises. Stock in first-class condition. Stock and fixtures at valuation roughly about £1,000. No buyers with less capital need apply.

£1,200 Returns. Yorkshire. Good market town. Pleasant locality. Good scope for increase. Valuation about £800.

£900 Returns. Notts. General light retail and own preparations. Valuation about £600.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—WEST OF ENGLAND.—For early disposal, two good-class Dispensing Businesses, together or separately; turnover £5,000; net profit about £1,100; price £1,400 and £1,200 respectively, or small goodwill and valuation.

2.—YORKS (W. RIDING).—Sound ready-money Retail, in splendid position; returns over £3,500; net profit about £1,000; good house and Pharmacy; heavily stocked; owner retiring; price £2,300; full value offered.

3.—HOME COUNTY.—Good-class Retail and Dispensing Business; ill-health sole cause of sale; returns £1,060; net profit £428; good house and garden; modern well-stocked Pharmacy; price £750.

4.—EAST COAST (Rising Resort).—Select Retail Business with Photographic returns; last year £1,300 odd, pre-war £1,800; well-fitted shop; good stock; convenient house; owner retiring; price £100 and valuation; in all about £850.

5.—N. DEVON.—Unopposed Light Retail and Dispensing; close to sea; returns £850; net profit £360; low rent; large house and splendid garden; price £500.

6.—BEKKS (25 miles out).—£150 secures a sound Business at present under female: returns £8 to £11 weekly, at good profits; low rent; stock and fixtures worth fully £200; smart man with little spare capital would at once add £5 a week to takings; worth attention.

7.—LONDON SUBURB, S.E.—Very profitable suburban cash Retail; no Panel or Dispensing; returns £2,000; net profit £700; splendid position; well fitted and stocked; owner retiring; price £1,500.

8.—CRYSTAL PALACE (Near).—Middle-class Retail and Dispensing; returns over £1,200; good profits; no immediate opposition; low rent; fully stocked; price £675.

9.—LONDON, S.W.—Good-class Retail and Dispensing Business; in fine position, close to busy station; returns £1,000; no panel; clear net profit over £300; books properly kept; scope for increase; owner retiring; price £450; strongly recommended.

BUSINESSES WANTED.

We are in immediate want of sound concerns returning from £700 upwards; town and country; cash buyers waiting; intending vendors are cordially invited to correspond. Terms on application. Established 1870.

BUSINESSES FOR DISPOSAL (continued).

FOR Immediate Disposal.—Shop and Branch; South Wales Colliery district; turnover over £2,000; business chiefly Prescribing and Counter trade; profits above average; low price for quick sale for one or both businesses. Apply 227/30, Office of this Paper.

OWING to death of proprietor, an old-established Chemist, Bookseller, Stationer, Fancy Goods Business for immediate disposal; inspection invited. All particulars from Mrs. Treweaks, Pembroke, S. Wales.

£2,000 RETURNS; death vacancy; Midlands; good-class country Retail; no heavy trade or N.H.I.; good house; heavily stocked; all in good condition; £5,745 returns; North Midlands; middle-class Retail, Prescribing, etc.; net profit £2,219; price £4,650, or last year's net profit; goodwill and stock and fixtures at valuation. £1,150 returns; London suburb; Light Retail; with appointment realising over £100 per annum; good house; rent £46; price £675. Apply 24/50, Office of this Paper.

THOS. TOMLINSON & SON

CHEMISTS, VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

£1,000 RETURNS, increasing; profitable Light Retail and Dispensing; very little N.H.I.; no opposition; good-class healthy suburb near Manchester; much scope for increase; profits above the average; splendid opportunity for lady or anyone requiring a nice clean business; every investigation and trial allowed; price £450. Address 227/37, Office of this Paper.

BUSINESSES WANTED.

LONDON OR NEAR.—Good sound mixed Drug Stores or Business to suit energetic unqualified; state lowest terms; advertiser could act as part-time for short time if trial agreed. Replies, treated with strict confidence, "Genuine" (230/27), Office of this Paper.

MIDLANDS.—Sound Business required; scope for development; must bear strictest investigation; reasonable price given for genuine concern; with living accommodation preferred. Apply 227/33, Office of this Paper.

A GOOD country or seaside Business wanted; cash waiting. £2,000; South preferred; replies strictly confidential. Apply 232/35, Office of this Paper.

BUSINESS required, N. London (Tottenham or adjacent district), Bournemouth or other large coast resort, with house attached; must be live business and bear investigation; would consider Managership with or without view to succession, or partnership. Please address particulars to "Ph.C." (231/27), Office of this Paper.

CHEMIST'S Business wanted; should be well fitted, in decent district, offering ample scope for expert Prescriber; house accommodation immaterial, but good rooms for Sight Testing, Truss Fitting, etc., desirable; advertiser has ample cash; prepared to take charge immediately, and will consider any good business. Write fully, enclosing photo if possible (returnable), in confidence, to "Richard" (228/9), Office of this Paper.

GENUINE Business somewhere in or near South Midlands, with scope for Dentistry and Optics; business with good house, healthy situation, and scope as above, however small, considered; advertiser could wait till autumn before entering same, but should like to conclude arrangements as early as possible. Morgan, Chemist, Kimbolton, near Huntingdon.

SOUND well-established Business, Morecambe, or within 10-15 miles of same; or would entertain Managership with early view to succession. Full particulars of takings, profits, etc., and lease agreement, in strict confidence. Apply 227/36, Office of this Paper.

UNREGISTERED wants sound Business; house accommodation preferred; neglected one with good prospects entertained. State particulars and price for cash, or part cash and balance by instalments, must be reasonable, replies treated in strict confidence, references given, "Energetic," 34 Cawdor Road, Fallowfield, Manchester.

WANTED, South Coast, the West Country, or West of England, a sound good-class Business; returning about £2,000 preferred; must bear strict investigation; references exchanged. "Jef" (227/20), Office of this Paper.

WANTED (shortly), ordinary Retail Business; small town or village; South-West England or South Wales; Panel work undesirable; price about £500; house with garden; please state locality, size of house, and shop; rental, lease, or agreement; rateable value; strict confidence. Apply to "Cash Ready" (228/11), Office of this Paper.

WANTED (immediately), in Liverpool, a good-class Chemist's Business; must bear strictest investigation; prompt cash given. Full particulars in first instance to "Malt," c/o John Thompson, Ltd., 58 Hanover Street, Liverpool.

WANTED, general Retail Business; with or without N.H.I. Dispensing; neglected one not objected to; must have plenty of scope for development; with or without living accommodation. Full particulars to "Statim," 149 Balby Road, Doncaster.

WANTED, in London, W. (preferred), or any London district or suburb, three Businesses; preferably Store and Prescribing trade; no N.H.I. if possible; turnover £20 up to £120 week; state if house attached. Give full particulars, net profit, and price 232/13, Office of this Paper.

WANTED in Midlands, Leicestershire preferred, a sound profitable Business, capable of extension, with good living accommodation if possible; returning £1,500 or more. State full particulars, 232/20, Office of this Paper.

ROOMS WANTED.

ROOMS; suitable Dental Surgery over shop; London or suburban district; central position. Particulars to 227/22, Office of this Paper.

TENDERS.

THE SURPLUS GOVERNMENT PROPERTY DISPOSAL BOARD invites Tenders for any or all of the following Chemicals and Drugs:—

Description.	Minimum Quantities.
Bismuth Subgallate.	50 Kilo packages.
Caffeine Soda Benzoate.	50 Kilo packages.
Caffeine Soda Salicyl.	50 Kilo packages.
Corrosive Sublimate.	50 Kilo packages.
Mercury White Ppt.	50 Kilo packages.
Nanna Catabrina.	50 Kilo packages.
Opium Powder 10% Persian.	50 Kilo packages.
Rad. Rhei Pulv.	50 Kilo packages.
Mercury Sulphate.	25 Kilo packages.
Mercury Salicyl.	25 Kilo packages.
Potassium Chlorate.	50 8-Kilo packages.
Theobromine Soda Salicyl.	20, 25, and 50 Kilo packages.
Bismuth Salicyl.	80 Kilo packages.
Phenacetin.	100 lb. packages.

Tenders must be not less than the minimum quantity indicated above against each item, and may be for any multiple of such minimum quantity. Cases and packages will be invoiced free of charge.

The Board does not bind itself to accept the lowest or any tender. Further particulars and Forms of Tender can be obtained from the Secretary, Surplus Government Property Disposal Board, 6 St. James' Square, London, S.W. 1, at which office samples can be inspected.

LEGAL

RE JOSEPH JAMES OGILVIE EVANS, DECEASED.

ALL persons having any claims or demands against the Estate of the late Joseph James Ogilvie Evans, Chemist, a member of the Pharmaceutical Society, Great Britain, of No. 1 Orchard Gardens, Teignmouth, Devon, who died on the 25th day of December, 1918, are requested to send full particulars of the same forthwith to the undersigned Solicitor for the Executors.

Dated this 9th day of January, 1919.

W. F. C. JORDAN,

Teignmouth.

Solicitor.

FOR SALE.

FOR disposal, about 25 gr. 200-gramme Round Bottles, nearly white, at 18s. gr.; 15 gr. 180-gramme do. at 17s. gr.; 10 gr. 125-gramme do. at 16s. gr. Extirmo, Ltd., School Street, Hull.

MIXER; double blade and reversing; suitable for heavy mixings; size of mixer inside, 30 in. by 1 ft., 10 in. by 24 in. deep; little used. Apply 217/31, Office of this paper.

SUGAR of Milk; 28 lb.; U.S.P.; 4s. lb., carriage paid. Yankee, Ltd., 76 High Street, Manchester.

THE lot, £2 10s., or parts. Offers. $\frac{3}{4}$ oz. Coumarin Crystals, 8 oz. Oil Fennel, $\frac{7}{8}$ oz. Oil Terpinol, 4 oz. Oil Fini Pumilio, 6 oz. Oil Sandalwood, 4 drams Oil Anthemidis, 3 drams Oil Cummin, 1 oz. Oil Cubeb, 13 oz. Pulv. Ipecacuanha, 1 gross 2 min. Quiaacol Capsules, $\frac{3}{4}$ oz. Thymol, $\frac{1}{4}$ lb. Orange Peel; Pulv. Ext. Hamamelis, 5 drams; Ext. Colocynthis. Co., 1 oz.; 1 oz. Nigella, and several other items, worth 10s., included for 2 10s. Address Hannah's, 41 Milkstone Road, Rochdale.

TYPEWRITER, "Remington," in first-class order; also a Mixing Machine, suitable for mixing about 3 cwt. of lozenge or other paste. For further particulars apply 217/310, Office of this Paper.

LB. Fer. Quin. Cit., B.P., 1 lb. for 25s. 6d., 8 oz. for 13s., 4 oz. for 7s.; cash with order. John Noble, Pharmacist, 7 Owens Row, London, E.C. 1.

TO LET.

FACTORY SITE.—Exceptionally valuable river-fronted freehold Factory Site (within seven miles of London Bridge); unique position; area 50 acres, with over 800 ft. river frontage; easily navigable below bridges (no dues); approached by hard road, and with railway facilities available; sewer and surface drainage, gas and electricity; in neighbourhood where labour is easily obtainable; ample housing accommodation in the district; price £850 or acre. Green, Bank Buildings, Woodgrange Road, E. 7.

PARTNERSHIPS.

£4,000.—Advertiser desires position in commercial or manufacturing business; thoroughly experienced, good organising ability, and conversant with modern business methods; in position to extend business. Apply 200/18, Office of this Paper.

SALES BY AUCTION.

TO CHEMISTS AND DRUGGISTS, CATERERS, AND OTHERS.

250 LB. SACCHARINE TABLETS.

THE STOCK OF A TABLET MAKER,

All Guaranteed.

AMERICAN MONSANTO SACCHARINE,

2 original Tins Monsanto 550 Saccharine.

TWO AND A HALF MILLION TABLETS,

$\frac{1}{4}$ grain, 330 in one, Monsanto Saccharine.

100,000 Tablets Chic Sweetening Tablets, $\frac{1}{4}$ grain.

5 gross 2s. Boxes ditto, 2 gross 1s. 3d. Packets ditto.

1 cwt. Cask Sweetening Powder.

MR. FRANK G. BOWEN will Sell by Auction at his Sale Rooms, 62a Aldersgate Street and Harc Court, London, E.C. 1, on THURSDAY, JANUARY 23rd, 1919, at 2 o'clock precisely.

On view day prior and morning of sale. Catalogues of the Auctioneer.

AGENCIES.

BELGIUM.—Geo. Ch. W. Henrotte, Chemist, agent for three sound English firms, ready to take one-fourth agency for Essential Oils or Glass Sundries for medical men; visiting hospitals; wholesale Belgian trade and medical officers; returning shortly. Apply 27 Montem Road, S.E. 23. Very urgent. Offices in Brussels, Liège, and Anvers.

BELGIAN Druggist and Herb Exporter, owner of warehouses, carts, and horses, desires to come to agreement with English Drug and Chemical Manufacturers to represent them in Antwerp as Agent on commission, with or without dépôt. Address 211/20, Office of this Paper.

FAR EAST.—Travelling Representative, with extensive connection and experience in China, Malay States, and Far East, is prepared to represent manufacturing firms. Drug, Perfume, Surgical, and allied trades, desiring to extend their business in the Far East. Reply "China" (222/28), Office of this Paper.

INDIA.—Wanted to represent an English Wholesale Drug house in India for Crude Drugs, Galenicals, packed goods, etc.; already well-established as Agents for certain Proprietary preparations; could also take a patent food; have our own travellers; bank reference, National Bank of India, Bombay and London branches. Replies to E. Stella & Co., Bombay, India.

IRELAND worked thoroughly by advertiser carrying two well-known Proprietary lines, who desires to take up another good line or agency on commission or otherwise; commands the most extensive and personal connection possible with both Wholesale and Retail Chemists and Druggists. Reply to "Influence" (233/17), Office of this Paper.

PORTUGAL AND PORTUGUESE WEST AFRICA.—Lisbon firm (Wholesale Chemists and Druggists) seeks agencies from manufacturers of Pharmaceutical and Chemical products or other suitable articles; correspondence in English or French. Particulars from Mitchell Genge & Gimenez, 28 Monument Street, London, E.C. 3.

AGENCY.—Manufacturing Perfumers, with travelling staff and offices in West End of London, would be pleased to receive proposals as to sole agencies. Reply to 225/9, Office of this Paper.

AGENT, calling on Shippers, can hear of good selling lines in Toilet preparations, Shaving Sticks, etc., which repeat well, by communicating with C. A. Stokes & Co., Ltd., "Eelipol" Works, 31/35 Lower Castle Street, Bristol.

AGENTS wanted for their respective grounds; 20 per cent. commission on all net accounts paid; orders booked, repeats, letter orders, etc., from the trade; a Proprietary medicine showing 33 $\frac{1}{3}$ per cent. profit to the retailer; kindly state goods already carrying, duration of connection, exact ground, and references, not originals. Reply to 171/23, Office of this Paper.

DRUGS, CHEMICALS (FINE OR HEAVY), AND ALL ARTICLES USED IN THE CHEMICAL OR GROCERY TRADES.—An Englishman resident for several years in New York, now on a visit to London, and with a large English connection, is open to act as the New York buying agent for two or three more first-class houses; an interview can be arranged by appointment. Apply "T. H." (20/47), Office of this Paper.

MANUFACTURERS' Agencies wanted, buying or selling, by a gentleman who has a very large connection amongst Chemists, Hairdressers and Stores, and who already holds Agencies for well-known lines; Toilet Specialities preferred. Write Varda, Greenlands, Greenlands Road, Staines.

MANUFACTURERS' AGENCIES.—Advertiser, opening office and warehouse in Manchester, is prepared to represent a few good firms for Druggists' Sundries and allied lines; buying and selling; wholesale and retail; 20 years' experience of the trade. Apply 226/40, Office of this Paper.

TRAVELLER, young, with very large connection, desires to represent a first-class house in Perfumery, Toilet Soaps, etc.; can furnish excellent records and references; salary £500 and expenses. Full particulars to 230/11, Office of this Paper.

TURNER'S TABLETS.—Agents wanted for the sale of our Tablets; applicants must have sound connection with good buying houses; every encouragement will be given to pushing, energetic men. State full particulars, references, ground covered and how often, and commission required, Turner Chemical Manufacturing Co., Broad Street House, E.C. 5.

VENETIAN Druggist desires to represent British and American firms in Pharmaceutical, Perfumery, Toilet articles; travellers employed in all parts of Italy; references and guarantee furnished. Write Farmacia, Inglese Rossi, Venice (Italy).

SITUATIONS OPEN.

RETAIL.

BIRMINGHAM.—Qualified Assistant required for quick cash and N.H.I. Dispensing business; permanency; would suit elderly Chemist if active. Apply 231/403, Office of this Paper.

BOURNEMOUTH.—A competent Assistant for a Dispensing business; lady or gentleman. Apply, giving usual particulars and salary required, to Hardwick, Poole Hill, Bournemouth.

BRADFORD (NEAR).—Elderly qualified Assistant; easy hours; duties light; permanency. "L. M." (231/400), Office of this Paper.

BRIGHTON.—Assistant, unqualified; outdoors; age about 24. Apply, stating experience and salary required, to Gwatkin & Son, 49 Grand Parade.

BRISTOL.—Junior (outdoors) for general Retail and Dispensing business, for Counter and Stockkeeping; age 22-4; easy hours; no Sunday duty. Apply, stating salary required and when disengaged, to "Presley," 12 Tramways Centre, Bristol.

BUXTON.—Junior (either sex) for Light Retail and Dispensing; indoors; comfortable. State experience, age, salary required, with photo if possible, to A. Thresh, Pharmacist, Buxton, Derbys.

DERBYSHIRE.—A reliable qualified Assistant required for small middle-class Retail business with N.H.I.; hours moderate; no holiday or Sunday duty; a permanency for the right man. Salary and recent reference to 231/19, Office of this Paper.

HULL.—Qualified Manager required for Light Retail and Dispensing business; permanent and progressive berth; interest in the profits offered. "M. C." (231/4), Office of this Paper.

KENSINGTON, W.—Energetic Manager for small business; good prospects. Write full particulars, 233/16, Office of this Paper.

LONDON (Southern Suburb).—Qualified Manager wanted, age about 30, for quick cash Retail; a good organiser, with up-to-date ideas and push, is assured of an up-to-date, permanent, and progressive income. In reply, usual particulars as to age, references, experience, and salary, 231/18, Office of this Paper.

LONDON, E.—Elderly qualified Chemist required for Dispensing and Light Counter work; state age and salary required; permanency. "T. S." (231/402), Office of this Paper.

LONDON, N. 4.—Wanted, a reliable and capable Assistant for quick cash business; duties Dispensing (chiefly N.H.I.), assist at Counter, and keeping up stock; hours 9 till 8, Saturdays 9, close at 1 on Wednesdays; Sunday duty every other Sunday evening from 6 till 8; commencing salary £4 per week. Particulars and references, or personal call, to Pirie, Chemist, 4 Grand Parade, Harringay.

LONDON, N.W.—Assistant wanted for good-class business; full or part time. Apply, with full particulars, 232/21, Office of this Paper.

LONDON, S.W.—Lady Assistant required; qualification not essential. Apply A. J. Phillips, 156 Cromwell Road, South Kensington, S.W. 7.

LONDON, S.W.—Junior Assistant, of good experience, required at once. Apply Plaister & Co., 13 Gledhow Terrace, Old Brompton Road, S.W. 7.

LONDON, W.—Sharpe & Son require a competent Assistant with good Dispensing experience; outdoors. Please give particulars of previous engagement, age, when disengaged, and salary expected, to W. J. L. P., c/o Sharpe & Son, 34 High Street, Notting Hill Gate, W.

LONDON, W.—Wanted, qualified Assistant for comfortable berth in the West End. Kindly state age, experience, and salary required, E. Burden, 78 Duke Street, W. 1.

LONDON, W.—Wanted (immediately), a Junior Assistant to assist Dispensing Counter. State age and salary required to John Atkins, Chemist, Queen's Road, Bayswater, W. 2.

LONDON, W.—Competent qualified Assistant required; immediate vacancy. Write or call, Rouse & Co., 12 Wigmore Street, W.

LONDON, W. 10.—Wanted, a capable Assistant for Dispensing and Counter; no Sunday duty; good wages to a suitable Assistant. Apply, with full particulars and salary required (outdoors), J. R. Faulkner & Co., 173 Ladbroke Grove.

LONDON, W.C.—Wanted (shortly), a qualified and an unqualified Assistant for good-class business; outdoors; experienced and capable man required. Bantalls, Ltd., 150 Southampton Row, W.C. 1.

MANCHESTER.—Qualified Assistant required; permanent; capable taking charge if necessary; cash Retail and N.H.I. Dispensing. State full particulars, in confidence, 232/10, Office of this Paper.

MANCHESTER DISTRICT.—Qualified (outdoors) Assistant, aged about 30, required for good-class Retail and Dispensing business. Address, stating full particulars as to salary, references, etc., and enclosing photo (to be returned), to T. and W. Woodruff, Pharmacists, Cheadle, Cheshire.

NOTTS.—Qualified lady or gentleman to take charge of branch shop; comfortable shop; easy hours; managed by lady Pharmacist for last two years. Usual particulars to E. J. Latham, Sherwood Pharmacy, Warsop, Mansfield.

NORTHAMPTON.—Wanted, a capable unqualified Assistant, with good all-round experience; outdoors; no duty on Sunday or after closing; permanency. State age, experience, and salary required to L. North, Chemist, Bridge Street, Northampton.

OXFORD.—Messrs. Dolbear & Goodall require capable Assistant (lady or gentleman) for good-class Dispensing business; indoors or outdoors. Apply, with full particulars, 108 High Street, Oxford.

SHEFFIELD.—Vacancies for qualified Manager and qualified Assistant will shortly be open in middle-class shops; hours easy; alternative Sunday duty; half-day on Thursdays. Applicants please give full particulars, salary, etc., to 65 Rustlings Road.

SOUTH LONDON.—Qualified Assistant, able to take charge; good Counterman, quick Dispenser. Terms and usual particulars to 230/17, Office of this Paper.

A GOOD Dispenser wanted, quick and accurate, well up in general routine (outdoors), for good-class country business. Apply "Tengine" (231/39), Office of this Paper.

ALLEN & HANBURY, LTD., invite application from young lady with knowledge of Drugs and accustomed to figures; experience of N.H.I. prescription price checking would be useful. Apply by letter in first instance, giving full particulars of previous experience and salary required, to Ref. "M. N." Allen & Hanbury, Ltd., Bethnal Green.

NATIONAL HEALTH INSURANCE.

DRUG ACCOUNTS COMMITTEE.

ASSISTANT SUPERINTENDENT wanted for central checking bureau in Glasgow; applicants (not necessarily qualified Chemists) must have experience in pricing National Health Insurance prescriptions; speed and accuracy essential. Applications, stating age, experience, and enclosing copies of testimonials, must be lodged with the Superintendent, 20 Renfrew Street, Glasgow.

ASSISTANT wanted, age 19 to 25, in good-class business; used to Dispensing and Counter; light work; short hours; no duty; outdoors. Please apply, stating salary required and usual particulars, to 227/34, Office of this Paper.

ASSISTANT required; must be quick and accurate Dispenser. State age, experience, and salary, J. and H. A. Averill, Pharmaceutical Chemists, Stafford.

ASSISTANT Dispenser (Hall), male or female, required Monday and Thursday afternoons for three hours in a London Dispensary; permanent work; reasonable remuneration; tea provided; previous hospital experience not essential. Apply 231/2, Office of this Paper.

ASSISTANT Dispenser wanted; outdoors. Apply, stating salary and full particulars, to D. P. Roberts, Chemist, 120 North End, Croydon.

ASSISTANT (unqualified) for brisk Counter trade (no ladies). R. Pratt, 94 Canterbury Road, Kilburn (near Queen's Park Station, Bakerloo).

CAPABLE and energetic Assistant required for good-class Dispensing and brisk Light Retail business; must be an exceptionally good Salesman, quick and accurate Dispenser; hours 9-8, Saturday 9-9, Sunday duty from 6-8 p.m. every fourth Sunday, one full day off once a month; salary, if qualified, from £250-£300; if unqualified, from £175-£225, and commission. Rutter, Chemist, Seaforth.

CAPABLE Senior Assistant wanted for high-class West-End business. Apply Manriev & Co., 42 Oxford Street, London, W.

COCKS & DUNSFORD, Torquay, require an Assistant for good-class Dispensing and Retail.

DISPENSER and Bookkeeper required in good-class business; easy hours. Apply Middleton & Co., Ltd., Station Street, Saltburn-by-the-Sea, Yorks.

DOCTOR requires Dispenser morning and evening; Victoria Dock district. Apply, stating terms required, to 233/4, Office of this Paper.

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J. Preston, Ltd.,

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QUALIFIED Manager; entire charge; old-established business
at Stepney; good house, rent, rates and light free, and
good salary. Morgan, 56 North Hill, Highgate, London, N. 6.

QUALIFIED Manager for quick Retail and Dispensing business;
state salary and usual particulars. Apply 232/40, Office
of this Paper.

QUALIFIED Assistant wanted (immediately); comfortable berth;
three kept. Apply, with usual particulars, "Pharmacist,"
c/o James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

QUALIFIED Dispenser required, lady or gentleman; good salary;
easy hours. Apply Selfridge & Co., Ltd., Oxford Street, W.

RELIABLE Assistant; outdoors; no N.H.I. work. G. W. G.
Robinson, M.F.S., 307 Raiton Road, Herne Hill, S.E. 24.

SAVORY & MOORE, LTD., Lancaster Gate, W. 2, require the
services of qualified Assistant (male); accustomed to first-
class Dispensing; outdoors. Full particulars to the Manager.

THE STOCKPORT CO-OPERATIVE SOCIETY, LTD., require
the services of a fully-qualified Chemist as Manager and
Buyer of Drug Department.

The Society has 13,000 members, and there is considerable
scope. Applications, by letter only (endorsed "Chemist"), stating
age, salary required, and full particulars as to present position,
must reach the undersigned not later than first post on Thursday,
January 30th. Canvassing members of the Committee will be
deemed a disqualification.

By Order of the Committee,
S. TAYLOR, General Secretary.

TRUSTWORTHY Assistant for Connter and Dispensing in good
old-established country business; permanency; easy hours.
Please state full particulars as to experience, salary expected,
etc., and enclose photo, Oldfield, 17 Cornhill, Ipswich.

UNQUALIFIED Assistant wanted for Connter and Dispensing;
good salary; occasional Sunday evening dnty. Apply person-
ally, Wm. Fox & Sons, Ltd., 109-113 Bethnal Green Road, E. 2.

WANTED, a capable Assistant; able to take charge when
required; good terms to snitable; permanency; knowledge of
Dentistry useful; near London. Usual particulars to "L. M."
(228/23), Office of this Paper.

WANTED, Assistant; unqualified; no Sunday duty; com-
mencing salary three guineas weekly. Particulars to R. & J.
Herman, Pharmacists, Aintree, Liverpool.

WANTED (immediately), fully-qualified male or female Dis-
penser; good wages; live out; permanency. Apply Manager,
Junior Army and Navy Stores, Ltd., Union Street, Aldershot.

WANTED, a reliable capable Assistant to manage a well-
established branch business under control of Head Manager;
qualified; age 25 to 35; preferred married, and wanting to better
himself. Apply 12/51, Office of this Paper.

WANTED, reliable qualified Maneging Assistant; Manchester
district. State particulars as to salary, etc., to 188/15,
Office of this Paper.

WANTED, unqualified lady Assistant for good-class country
business; about 20 years; outdoors; short hours; no N.I.
Dispensing; another Assistant kept. Apply, with full particulars,
to W. H. Jones, Pharmaceutical Chemist, Aberdare.

WANTED, Junior Assistant, with knowledge of Dispensing, for
average Retail and Dispensing business, with little N.H.I.
work; comfortable berth; indoors or out as preferred. Apply,
stating usual particulars as to salary required, etc., to W. H.
Hoare, 54 Willesden Lane, Brondesbury, N.W.

WANTED, unqualified Assistant with experience in Dental
work; hours 9 a.m. to 8.30, half-holiday, no Sunday duty;
Dispensing or N.H.I.; salary £3 and commission on Dental work,
not less than 10s.; good man can make much more. Usual par-
ticulars to 232/16, Office of this Paper.

WHOLE OR PART TIME (Male).—Assistant required for quick
Retail Dispensing and Photography; easy hours, and good
salary for suitable man. Apply Marshall & Co., 5 Pimlico Road,
Ebury Bridge, S.W. 1.

WHOLESALE.

MANCHESTER.—A smart capable Drug Traveller wanted. Apply
19/19, Office of this Paper.

CAPABLE man, used to manufacture Toilet articles, etc., and
control and organise staff; must have energy and initiative;
progressive post. Apply 24/3, Office of this Paper.

CAPSULES MANUFACTURER.—Wanted, a thoroughly ex-
perienced man; capable full control. State age, experience,
and salary required, 231/36, Office of this Paper.

CHEMICAL Engineer, possessing sound business knowledge and
experience, is offered good and progressive salary by firm
of Manufacturing Chemists—fine Synthetics and Pharmaceuticals—
as Manager of London Factory. The position is not open to any
but a really keen, capable, broad gauge man, who has not only
the ability, but the requisite will power and driving force to make
good. Applications, which will be treated as confidential if desired,
should be full and explicit, age, salary desired, qualifications,
and experience. Address to Box 439, Fredk. E. Potter, Ltd., Temple
Chambers, Temple Avenue, E.C. 4, with copies of references, not
later than January 22nd.

CHEMICAL DEPARTMENT.—Wanted, a well-experienced man
for the wrapping and bottling of fine Chemicals for Analy-
tical purposes; progressive permanency. Apply, in confidence,
Philip Harris, Edmond Street, Birmingham.

CLERK (lady) wanted for the Surgical and Sundries department
not old-established Wholesale Druggists; S.E. London; type-
writing essential. State experience, age, and salary required to
22/25, Office of this Paper.

COMPETENT Representative (qualified preferred) to call on
Doctors and Chemists (North of England); established con-
nection; good prospects; remuneration by salary and commission.
State age, experience, etc., confidential, "X. Y. Z." (232/18,
Office of this Paper.

COMPRESSED TABLETS AND LOZENGES.—Thoroughly ex-
perienced and reliable man required for provincial Whole-
sale house. State experience, age, and salary expected, 231/350,
Office of this Paper.

DESPATCH FOREMAN FOR HOME AND EXPORT BUSINESS.
—Wanted, experienced man with knowledge of Chemicals
and Glassware; good organiser, and capable of handling men.
State age, experience, and wages required, 22/15, Office of this
Paper.

DRUGS AND CHEMICALS (Wholesale).—Man required, with
experience of buying and selling; salary and commission on
results. Apply Woods & Webb, 86 Gray's Inn Road, Holborn.

GALENICALS.—Wanted by Manufacturing Chemists in Suffolk,
a man efficient in making up Galenicals, to take lead in
department under Manager. State experience, age, and salary
required to C. Stallon, 62 Bank Chambers, London, W.C. 2.

GIRLS wanted; experienced in Toilets, Labelling, etc.; good
prospects. Write fully, Casson Chemical Co., 11 Craven
Hill, Paddington.

JUNIOR Traveller for Birmingham and district; of good appear-
ance and address; experienced Drugs, Sundries, and allied
trades. Apply by letter to Blackwell, Hayes & Co., Ltd., 54 Moor
Street, Birmingham.

LABORATORY hand required; one used to manufacture
Galenicals; good prospects. State full experience and wages
required, 224/47, Office of this Paper.

LABORATORY MANAGER.—Wanted by firm of Manufacturing
Chemists in provinces, Manager for Laboratories; must have
practical experience in the making of Galenicals, Pills, Tablets,
Toilet preparations, and Proprietary articles; excellent prospects
for right man. Applicants are requested to give full details of
experience in first letter. Apply 231/9, Office of this Paper.

LABORATORY man wanted for Wholesale Druggist's Steam
Laboratory in the provinces; must be thoroughly experi-
enced; one desiring a permanency preferred; the position offers
considerable scope for a persevering man. Give particulars of
previous experience, age, and salary required, 231/35, Office of
this Paper.

MANUFACTURING Pharmacist required in London, with all-
round experience in the manufacture of Galenical prepara-
tions, to take sole control in the Laboratory of Wholesale and Export
Manufacturing Chemists in London; must be fully conversant with
all branches; substantial salary will be paid according to ability,
experience, and qualification. Apply, stating full particulars as
to experience, etc., to 22/74, Office of this Paper.

PHARMACEUTICAL Chemist (lady); experienced in Pharmaceu-
tical Analysis and Alkaloidal Assay; to be also capable of
taking charge of a small filling department. Apply, stating full
particulars of experience, salary required, etc., to 22/33, Office
of this Paper.

PHOTOGRAPHIC Printing and Developing, three Upright Tanks,
Moore's Printing Machine, etc.; complete outfit for trade
work. Full particulars to 24/301, Office of this Paper.

QUALIFIED Chemist required to take charge of Dry Poison
room, etc. Apply, with full particulars as to previous ex-
perience and salary required, to Southall Bros. & Barclay, Ltd.,
Lower Priory, Birmingham.

REQUIRED by a firm of Manufacturing Chemists, Assistants
holding the Minor qualification of the Pharmaceutical Society.
Applications from female Pharmacists would be entertained pro-
vided they have served an apprenticeship and had a training in
a Retail Pharmacy. Apply by letter, stating experience and
salary required, and enclose photograph (to be returned), to 22/71,
Office of this Paper.

REPRESENTATIVES, Midlands and Eastern counties, also for
Wales, for Toilet lines already well introduced; must have
established connection and be a first-class man. Apply 24/300,
Office of this Paper.

REPRESENTATIVES wanted, one for the South Coast and one
for the North of England and Scotland, to represent well-
known brand of British Eau de Cologne as side line. Write fullest
particulars, which will be treated strictly confidentially, to 232/25,
Office of this Paper.

TRAVELLER required, London and provinces, calling on Hair-
dressers and Chemists; Toilet articles, Brillantine, Perfumes,
etc. Write 195/29, Office of this Paper.

TRAVELLERS wanted to carry packed goods lines; Infants' Foods; small salary and commission. State ground covered and give full particulars by letter to Box 227/13, Office of this Paper.

TRAVELLERS, calling on Chemists and Drug Stores throughout Great Britain and Ireland, wanted to sell a competitive line, in regard to price and quality, in Meat Extract Cubes; generous commission paid. Write "Meat Extract," c/o Shelley's, 38 Regent William Street, E.C.

TOILET GOODS.—Wanted, smart Representatives to call upon Chemists, Hairdressers, and Stores for the following districts: N.E. England, N.W. and East Anglia. Please state full particulars, 228/20, Office of this Paper.

WANTED by provincial Wholesale house, qualified Assistants in all departments. Apply, giving particulars, experience, salary required, 20/57, Office of this Paper.

WAREHOUSE.—Wanted, a man familiar with Pharmaceutical Chemicals, to supervise the Stock-keeping and putting up of fine products; good prospects for a really capable man. Apply, giving full particulars, to Hopkin & Williams, Ltd., 16-17 Cross Street, Hatton Garden, E.C. 1.

WANTED, Working Manager to take charge of packed goods department; must have practical knowledge of compounding both Medicinal and Toilet preparations for Wholesale trade; to capable man opportunity for advancement offers itself. Give full particulars of experience, age, salary required, etc. Apply 231/10, Office of this Paper.

WANTED, Traveller with established connection amongst Chemists and Drug Stores in Yorkshire, Durham, and Northumberland. State age, how long ground worked, etc., fully. Reply, in confidence, to 231/100, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

INDIA.—Two Assistants, qualified preferred, required for high-class British firm of Chemists in Calcutta; four years' agreement; passage paid out and home; monthly salary first year Rs. 300, second Rs. 325, third Rs. 350, and fourth Rs. 400. Apply, giving full particulars of experience, etc., to 215/12, Office of this Paper.

JAPAN.—Two qualified Assistants wanted for Yokohama. Salary £20 per month, increasing to £30; free furnished quarters, with lighting and heating; free passage out and home. For details apply M. H., S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C. 1.

JAPAN.—Wanted (immediately) as Second Assistant, single, qualified, and as Fourth Assistant, qualified preferred, in first-class business at Kobe; easy hours; liberal salaries; passage out and home. Send for full particulars, with photo, to J. W. Franklin, c/o Bailey's Hotel, Gloucester Road, S.W. 7.

STRAITS SETTLEMENTS.—Qualified Assistant, young, and capable of managing Branch Dispensary; four years' agreement; passage paid out and home; salary first year, dollars 250 per month, second and third years dollars 275 per month, fourth year dollars 300 (Straits dollar 2s. 4d.); splendid opportunity for an energetic man; a knowledge of Optical and Photographic work desirable. Apply W. C. H., Burgoyne, Burdidges & Co., Ltd., East Ham, E. 6.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

AFTERNOON (from 2-5.30).—Lady Dispenser (qualified) requires post; three years' experience with West-End Chemist; used to L.I.P. Dispensing. "L. S." 156 Elgin Avenue, W. 9.

AS Manager or Locum; 41; outdoors; disengaged; Southern Counties preferred. Apply 233/2, Office of this Paper.

ASSISTANT, Senior, disengaged; experienced; reliable. Apply 219/11, Office of this Paper.

ASSISTANT; unqualified; four years' experience; disengaged; single; just been discharged from work of national importance. Apply Williams, 21 Gwendraeth Town, Kidwelly.

ASSISTANT, capable of management, married, unqualified, desires post where he can live over premises; preferably outer suburbs, London; 10 years' West-End experience; good references. "Statim," 17 Galton Street, Queen's Park, N.W.

ASSISTANT (demobilised), age 24, desires situation in London (S.W. preferred); Dispensing, Counter, and Photographic experience. Apply "Aspirin," 186 Vauxhall Bridge Road, Westminster, S.W.

ASSISTANT; unqualified; Dispenser and Counter. State salary and particulars, "Rome" (227/7), Office of this Paper.

ASSISTANT as Dispenser (28); whole or part time; London or suburbs. Apply 233/5, Office of this Paper.

ASSISTANT, unqualified, 22, smart and refined (demobilised R.A.F. Cadet), seeks situation one month hence; Midland district preferred, but not essential; capable Dispenser, Photography. State salary, "Rex" (232/30), Office of this Paper.

ASSISTANT or Managing Assistant is on the look out for a permanent post where ability is recognised; trustworthy; married; unqualified; 33; Midlands. "Leon" (232/17), Office of this Paper.

ASSISTANT Dispenser (Hall) requires post; Institution or Municipal Welfare work; London. Apply "K." (232/14), Office of this Paper.

AT LIBERTY SHORTLY.—Elderly Pharmacist seeks post in light business; early hours; active, reliable; London and provincial experience. Send full details and terms offered to M.P.S., c/o Mrs. Vokes, Fishers Road, Totton, Hants.

CLERICAL; evening work of any kind; terms moderate. Write "F. G." (219/30), Office of this Paper.

DENTAL; locum; West of England; Surgery or Workshop; experienced. "Cedens" (227/3), Office of this Paper.

DISPENSER (unqualified) desires post with Chemist or Doctor; in or near Kingston. Apply "Z." (231/28), Office of this Paper.

LADY Dispenser-Bookkeeper (Hall), Pelman student, 26, good experience and references, competent and reliable, now disengaged, desires post with firm of Doctors; London or suburbs. Full particulars and salary to "Dispuenser," c/o Bond, Stationers, Fleet, Hants.

LADY Dispenser, Irish, Apothecaries' Hall qualification, requires post with Doctor; age 19 years. Miss N. Cahill, Ballyconra House, Ballyragget, co. Kilkenny, Ireland.

LADY Dispenser-Bookkeeper (Hall), five years' experience, desires indoor post with Doctor. Apply 228/8, Office of this Paper.

LADY Dispenser (Hall) desires post; five years' high-class Retail and Dispensing experience; excellent references; free any time. Apply 228/80, Office of this Paper.

LADY Dispenser (Hall) requires Dispensing three or four evenings a week; City, E. or N.E. preferred. Apply 230/20, Office of this Paper.

LADY Dispenser (Hall), capable, experienced, seeks post; Doctors or Institution preferred; permanency. Please state terms and particulars, 230/14, Office of this Paper.

LADY Dispenser requires post with Doctor; London or district. L. Webster, Weedon, Northants.

LADY Dispenser (Hall), with experience, desires post; Manchester district. A. Illingworth, 9 Wilton Road, Chorlton-cum-Hardy.

LADY requires situation to Chemist; good experience. M. Williams, 37 Burgoyne Road, Harringay, London, N.

LADY Dispenser (Hall) desires post; Chemist or Doctor; two years' experience; disengaged now; South Wales preferred. Apply 233/23, Office of this Paper.

LOCUM or Manager, with view to early succession, disengaged. Rees, 4 Market Road, Canton, Cardiff.

LOCUM or permanency; 30; London and provincial; all-round experience; abstainer. "H." 24 Kincraig Street, Cardiff.

LOCUM or Manager. Lynn, 2 Lodge, Sinclair Mansions, W. 12.

LOCUM TENENS; disengaged January 18th; experienced. "L. T." 14 Oxford Street, Abergavenny, Mon.

LOCUM; high-class experience; town or country; disengaged; abstainer; middle-aged; capable and energetic. W. B., 40 King Street, Maidstone.

LOCUM; qualified; disengaged. Apply "X." (231/6), Office of this Paper.

LOCUM; qualified; London or provinces; disengaged. "Cito," 4 Blenheim Road, N.W. 8.

MANAGER (branch); qualified (Major); married; middle-aged; experienced; not London. Particulars to Chemist, 75 Queen's Park Road, Brighton.

MANAGER; qualified; 48; married; good all-round experience; disengaged February. Aspinall, 29 Sandrock Road, New Brighton, Cheshire.

MANAGER, qualified, 42, is open to accept responsible position in London or suburbs; with or without view to succession; experienced Optician and Dental Operator. Apply, stating salary offered, to F. W. Elliott, 163 Camden Road, N.W. 1.

MANAGER.—Gentleman of ability, with unique experience at home and abroad, conversant with both Wholesale and Retail trade, fluent French linguist, 10 years in last post, seeks engagement; good credentials. Address 232/38, Office of this Paper.

MANAGER or Locum; qualified; sound business experience; excellent Dispenser and Prescriber; good education and references; abstainer; married; no family; disengaged. Apply 233/14, Office of this Paper.

MANCHESTER OR DISTRICT.—Inquiries invited from employers in want of a competent unqualified Manager or Assistant; good Salesman, Window-dresser, and Dispenser; kindly quote salary in first letter. Apply "Anthem" (233/24), Office of this Paper.

MINOR Student (lady) desires part-time post; experienced. "A.", 12 The Chase, Clapham.

NORTH.—Senior; manager or purchase branch; best organising and cash Retail experience. Apply 230/13, Office of this Paper.

OFFICER on demobilising requires post, Assistant or Manager, Drug Stores, with Dental connection; experienced with local anaesthetics, fillings, crowns, artificial teeth; age 28; height 5 ft. 10 in.; good education; married; no children; furnished or unfurnished rooms accepted; part salary; London or country. Apply 205/20, Office of this Paper.

PART-TIME, evenings from 5.30, as Dispenser; many years' experience; London or suburbs. Apply 233/50, Office of this Paper.

PHARMACIST, 28, married, desires situation on demobilisation; London and provincial experience; excellent references. State hours, salary, etc., Reed, 5 High Street, Gosport.

PHARMACIST, 30, demobilised shortly, desires engagement; good experience Dispensing and Counter; town or country. Apply 232/1, Office of this Paper.

QUALIFIED; age 33; fully experienced in all branches, including Photography, Optics (slight), and Analysis; free to commence February 10th. Please state salary offered to Chemist, 103 St. Leonards Road, Far Cotton, Northampton.

QUALIFIED elderly Chemist, London, country experience, open to manage small Retail; town or country; locum; permanency preferred. "Qualified," Daykin, Chemist, Ripley, Derbys.

QUALIFIED Chemist, 38, Manager and Buyer of Chemical department in large northern Store (10 years), with previous good all-round experience, desires change, where ability is appreciated and recompensed, or gradual succession to good business; part down, and remainder by arrangement. Apply 228/21, Office of this Paper.

QUALIFIED.—Energetic business man seeks permanency in Manchester as Manager; about 30 years of age; good all-round experience in buying and general management. Apply 231/34, Office of this Paper.

QUALIFIED; as Manager or Assistant in comfortable berth; disengaged; young; single; highest credentials. Please state salary offered and full details, in first instance, "Boron" (232/24), Office of this Paper.

SENIOR Assistant, married, good appearance, 6 ft., 33 years, excellent Salesman, Dispensing, Window-dresser, Photography, Dental Operator, Fillings, Scalings, Impressions, desires post where mechanical knowledge could be obtained; good salary required. London district or near Southend preferred, but not essential. No. 52933 Pte. Tocs, c/o 52nd Stationary Hospital, Le Havre.

SHIPS' Medicine Chest's Fitter and general Retail; 25 years' good all-round experience; unqualified. Apply 232/4, Office of this Paper.

SHORTHAND TYPIST.—Young lady desires re-engagement; 12 years' experience in Chemical trade, etc.; expert Typist (London district). Reply to 230/37, Office of this Paper.

UNQUALIFIED; 42; married; management or senior; Dentistry, Prescribing, and Dispensing; London only; good references. "S. W." (8/30), Office of this Paper.

WANTED, situation as Junior; just demobilised; served four years' apprenticeship; age 22; height 6 ft. Apply 231/11, Office of this Paper.

YOUNG lady (experienced) seeks situation in store room, London. L. H., 2 King's Avenue, Lampton, Hounslow.

YOUNG lady, desiring to qualify as Dispenser, requires post with Chemist or in Dispensing; London Matriculation; distinction in Chemistry; London or district. Apply 230/39, Office of this Paper.

WHOLESALE.

ADVERTISER desires suitable post with good Wholesale house; Manchester district; 16 years' experience Costs Clerk, Buyers' Assistant, etc.; thoroughly conversant with best markets for Drugs, Chemicals, and Proprietaries; can furnish excellent references; commence duties in a month's time; salary required £225 a year. Apply "Lancashire" (227/4), Office of this Paper.

ADVERTISER, sound all-round experience with leading London Wholesale Drug houses, desires change, provinces preferred; used to control; excellent references; 38; single; best of health; state approximate salary. Apply Wilson, 48 Noel Street, Islington, London.

ADVERTISER, unqualified, but an experienced Manager and Buyer, and well up in all departments of the Chemist's business, seeks responsible position with plenty of scope and prospects. Apply 231/30, Office of this Paper.

ALL-ROUND, useful, methodical Chemical Warehouse Foreman; good organiser, with initiative and tact. Apply 230/18, Office of this Paper.

CHEMIST, with first-rate experience in Wholesale, and with option of considerable business, wishes to negotiate with a firm of Manufacturing Chemists desirous of extending their connection; London or suburbs preferred. Apply 222/29, Office of this Paper.

COMMERCIAL or Factory Manager; age 40; practical experience manufacturing Toilet preparations and Proprietary lines; control completely factory and office; energy, tact, organising ability, and initiative; salary £416, but would consider good opening with prospects; London or provinces. Apply 219/31, Office of this Paper.

DEMOLIBISED (Shortly).—Experienced Representative, age 33, good appearance and address, desires progressive position (when discharged home service); Drugs, Sundries, Packed Goods, Surgical appliances, etc.; previous journey Midlands, Eastern Counties; consider changing ground. "Energetic" (231/21), Office of this Paper.

ENERGETIC, age 30, requires position as Representative on commission basis for any good line. Apply 220/5, Office of this Paper.

ENGINEER now open to take charge of Manufacturing Chemist; used to all latest Laboratory appliances, Colton and Stokes' machines, etc., tablet-punching making, and general maintenance of plant, steam and electric. W. J. N., 77 St. John's Road, Wembley.

GENTLEMAN (44) desires suitable position with good house; town or provinces; many years' experienced Clerk, Traveller, Manager, Sundries, and Proprietaries; Representative's position preferred, but willing to do anything. Apply 199/25, Office of this Paper.

GENTLEMAN, 38, well educated, with original and progressive ideas, wants position with live firm; unique experience in all branches of the Drug and allied trades, Wholesale and Retail; good organiser and correspondent; can produce profitable and artistic packed goods, write sale compelling advertising matter; would consider sole agency; experienced traveller with good connection. Replies to 232/33, Office of this Paper.

GOOD house requiring first-class Representative, with 18 years' experience, now disengaged, should apply to "Advertiser" (227/21), Office of this Paper.

ITALIAN Chemist, 36, knowledge English, highest credentials, excellent references, well connected with Italian manufacturers, Wholesale concerns, Chemists and Physicians, desires to act as Representative for British firm, to introduce, in Italy, Chemicals, Drugs, English Pharmaceutical specialities. Write Celso Duse, 18 Via Garibaldi, Torino.

MAN wants situation; age 36; 16 years' West-End experience in Wholesale and Retail, Surgical Sundries, Insts., and Dressings; used to control; can manage invoice and order departments, also front shop work. "Progressive" (227/15), Office of this Paper.

P.H.C. desires post shortly; London; Works Chemist or Manager; 20 years Manufacturing experience Galenicals, Synthetic Chemicals, Analysis Research, and Bacteriology. H. Johnson, 42 Rutland Road, Hove.

PHARMACIST, Sergeant R.A.M.C. (29), energetic, trustworthy, pending demobilisation, desires any engagement with Wholesale firm offering good prospects; French spoken. Apply 228/14, Office of this Paper.

QUALIFIED Chemist, with 18 years' Retail experience, desires to negotiate with firm looking for man of genuine character and original ideas and gift of organising; control of selling staff or development of sales would have special attraction; the position must not yield less than £500 per annum, and must have unlimited possibilities. Apply, in first instance, 231/31, Office of this Paper.

REPRESENTATIVE, proved business negotiator, good Salesman, seeks berth; Drugs, Toilets, Soap, or anything connected; excellent testimonials. Cobb, 56 Crowther Road, South Norwood, London.

WATSONS' OF SHEFFIELD

Want Folding Kodaks of all descriptions. At least two-thirds original retail price given for approved models.

For a short time we are willing to buy Kodaks of all descriptions, until fresh supplies reach this country. If you have any you want to dispose of, send them along to us without waiting to get into communication, and we will make you an offer by return.

Cash immediately. Goods returned carriage paid if no business.

WATSONS' (Proprietors, Wallace Heaton, Ltd.),
THE CAMERA HOUSE.

New Address: 19 CHANCE ALLEY, SHEFFIELD.

Telephones: 27 and 255.

TRAVELLER.—Qualified man, leaving the Retail, wishes to represent good house. Apply 231/3, Office of this Paper.

TOILET Specialities, Face Creams, Tooth Pastes, Shampoos; charge hand desires permanency. "Organiser" (230/22), Office of this Paper.

WORKS Manager Chemist, with 20 years' varied experience in Wholesale, desires position as above with progressive firm; first rate references as to ability; used to control of staff and business. Apply 222/290, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

ADVERTISER, young, desirous of change, seeks situation abroad; Dispensing, Photo, Optics; smart Counterman; experienced as Manager and Buyer; able to control staff; three or four years' agreement. Apply 233/8, Office of this Paper.

EGYPT.—English lady, of good address, desires post in Egypt; age 26; Apothecaries' Hall qualification; six years' experience; excellent references. Apply 217/15, Office of this Paper.

MISCELLANEOUS.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

TABLET Machines, several; suitable for punches $\frac{3}{4}$ inch and less; nearly new; in perfect working order; cheap. Apply 22/1, Office of this Paper.

TINS.—3,000 gross for sale, suitable for boot polish, etc., and powders. Apply J. C. Collier & Co., Ltd., 47 Market Street, Manchester.

60,000 ASPIRINS, 5 gross; 1,000 lots, 15s. 6d.; 5,000 lots, 15s.; larger quantities in proportion; cash with order. Woolhouse, Chemist, Huddersfield.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.

WHITE PHIALS, plain or teaspoons.
12 ounce. 1 ounce. 1 ounce. 1 ounce.

BLUE LOTION BOTTLES, all sizes.

CORKS. Superior Quality. No advance in price.

6 and 8 ounce ... 1s. per gross, in 6 gross bags.
Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,

or ISLINGTON BOTTLE COMPANY,

7 New Inn Yard, Tottenham Court Road, London, W. 1.

Orders sent to either establishment have attention.

Established 100 Years.

Bankers: London County and Westminster Bank, Bloomsbury Branch.

EXCHANGE COLUMN.

One halfpenny per word with name and address One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS

OFFERS.—Pears' Annual from commencement, 1891 to 1918, with plates; all perfected, clean, and flat as from printers; many plates now valued by Pears at 10s. 6d. to 21s.; see Annual, 1917. Knott, 88 Ashbrook Road, Upper Holloway.

DRUGS AND CHEMICALS.

SURPLUS STOCK.—Morphia Acet., 1 oz.; Acid. Salicyl., 4 oz.; Bismuth. Cit., 1 lb.; Puly. Rhei, $\frac{3}{4}$ lb.; Amm. Chlor. Pur., 2 lb.; Sod. Salicyl. Pur., $1\frac{1}{2}$ lb.; Camphor. Ang., $\frac{3}{4}$ lb.; Quin. Sulph., 3 oz.; Ferri et Amm. Cit., $\frac{3}{4}$ lb. Offers to Anderson, Chemist, Crouch End, N. 8.

OPTICAL AND PHOTOGRAPHIC.

OPTICAL Trial Case and Sundries for disposal. Send for list, Duck, Chemist, Cardiff.

MISCELLANEOUS.

MAHOGANY Pill Machine, 24 x 4 gr.; Marble Slab, not worn. 15s. Starmer, North Finchley.

1 GROSS 3d. Shampoo Powder, carriage paid, 15s.; sample 3d. Harvey, Chemist, Knaphill, Surrey.

POCKET Lamp Batteries, midget, $1\frac{1}{2}$ x $1\frac{1}{2}$, 3 dozen or less, 8s. dozen, post paid; 3 volt. Penlite Batteries, same price. Morris, Rexall Pharmacy, Rochester.

CLEARANCE.—6 dozen Tooth Brushes, best quality, white handles, 13s. dozen; 6 dozen 8-in. ladies' Dressing Combs, splendid value, white and black, 11s. 9d. dozen, post free; single dozens sold. Aldous, 48 Harpenden Road, West Norwood, S.E. 27.

WANTED.

PRIMUS Paraffin Stove in perfect order. Starmer, North Finchley, N. 12.

BOOKS on Herbal Treatment, including Robinson's; cash. A., 241 Seven Sisters Road, N.

TRIAL Frame (Orthop) or good make; rimless mounts. Apply 222/37, Office of this Paper.

MANCHESTER.—Wanted, set Chemist's Fixtures, Shop Rounds, etc.; complete. Apply 232/100, Office of this Paper.

WANTED to purchase, some bottles of Marists Brothers' Biphosphate of Lime. State price to Gilbert, Chemist, Manorhamilton, Ireland.

REGULAR supplies of 5-ounce pannelled Emulsion Bottles. Will makers able to supply please quote, Texalo Manufacturing Co., Trafalgar Square, Blackpool.

ONE small second-hand Tincture Press and one second-hand 1-gallon Percolator. State full particulars, with lowest price, Wigglesworth, Ltd., Westhoughton.

GLASS Showcase, with mahogany base and corners, 3 or 4 feet high, suitable for centre of Pharmacy. Rough sketch and price to the International Pharmacy, 21 Dawson Street, Dublin.

EMULSIFYING Machine for Cod-liver Oil and similar Emulsions; 8 or 10 gallon lots; power fitted. Also Boot Polish Plant, Boiler and Steam-jacketed Melting Pans. Particulars and price to 23/35, Office of this Paper.

GARDNER'S Mixer wanted (about $\frac{1}{2}$ cwt.), tube filling, and carbon filling machine. The above must be in good condition. State full particulars, F.O.R., to 209/10, Office of this Paper.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

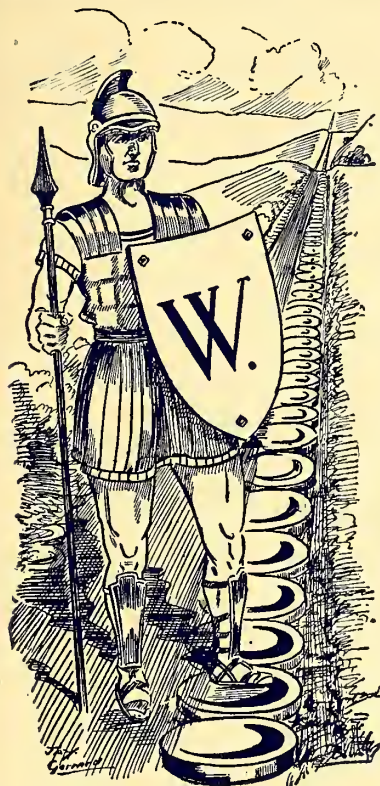
A SECOND-HAND plant for the manufacture of Household Soap; would consider buying factory outright. Apply 217/4, Office of this Paper.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

FLY GUM Manufacturer wishes to get in touch with Fly Catcher Makers. Gum suitable for home and all foreign climates. Apply 15/16, Office of this Paper.

WILLIAMS' Pherrozone Phosphate and Pherrozone Hydrobromide exchanged for Phenazone; Pharmacist's old stock Labels wanted for cash; sample and price. Williams, 14 Penn Road, Wolverhampton.

WANTED direct from factories, home or abroad, regular supplies of Rubber Goods; also large quantities Compressed Pine, Brompton, Mint, Fruit, Lemonade Lozenge Tablets, Gums, Pastilles. Quote price, "Importer" (217/9), Office of this Paper.



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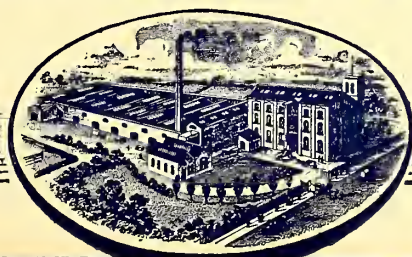
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PRICES {	1 lb.	2 lb.	4 lb.	7 lb.	Less 2½ % to a/c F.O.R. Leeds
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